JVC

SERVICE MANUAL

MODEL

PC-M100 L/LB

PORTABLE COMPONENT SYSTEM

No. 1535
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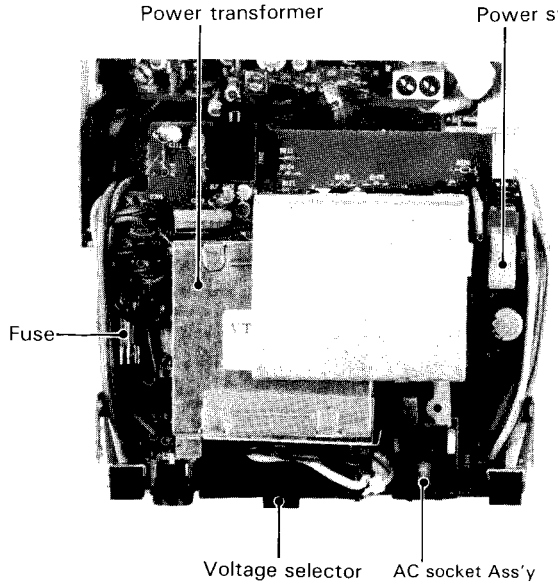
Safety Precaution

⚠ Safety mark

Safety is very important with this unit. When replacing the parts marked ⚠ , be sure to use only those designated parts. The designated resistors, diodes, transistors become hot in use. When replacing, be sure to secure them with a distance of more than 5 mm from the circuit board. In addition, they are banded together to avoid touching other wiring, recheck this point as well after repair.
The wiring of the primary side should be wound more than one and half times, then soldered.



Safety Component Parts List ⚠

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
R11	QRD161J-470	C. Resistor	47 Ω 1/6 W	1
R12	" -560	"	56 Ω "	1
R24	QRD144J-150S	"	15 Ω 1/4 W	1
R113	QRH141J-4R7	Fusible Resistor	4.7 Ω "	
R213	" -4R7	"	" "	1
R314	QRD161J-391	C. Resistor	390 Ω 1/6 W	1
R703	QRS188J-101	M.G. Resistor	100 Ω 1/8 W	1
R704	" -100	"	10 Ω "	1
R715	" -101	"	100 Ω "	1
C318	QET41CR-228SS	E. Capacitor	2200 pF 16 V	1
IC303	TA7232P	IC		1
Q306	2SD1266(P,Q)	Transistor		
Q709	2SB970(Q,R)	"		1
Q710	2SD601(Q,R)	"		1
D301	11E1-F	Si. Diode		1
D304	HZ6A2	Zener Diode		1
D305	11E1-F	"		1
D306 ~309	"	"		4
D704	MA152K	Si. Diode		1
D705	"	"		1
D751	LN217RPV	LED		
J304,	QMCO263-002U	AC Socket Ass'y	PC-M100L	1
S304	" -002UBS	"	" LB	1
S303	QST2101-V04	Push Switch	Power Switch	1
CP1	ICP-N10	Circuit Protector		1
	XDE-5A3RC	Motor		
	QMF51A2-2R0	Fuse	PC-M100L	1
	" -2R0BS	"	" LB	1
S305	QSS2325-104	Slide Switch	PC-M100L	1
	" -104BS	"	" LB	1

Features

1. Package of 4 mini components
2. ANRS/DOBLY* B NR (Noise Reduction) system (Rec/Play)
3. Cassette deck is usable as headphone stereo player
4. 3-way power supply
5. Music Scan** facility (with the cassette section connected to the receiver)
6. 4-Band Receiver
   - High output with small size.
   - Fine tuning
   - Bass/Treble tone controls
   - Variable monitor
7. Piggyback stereo cassette deck
   - ANRS/Dolby B noise reduction system
   - Anti-rolling mechanism
   - Built-in electret condenser microphone
   - Metal tape compatible
8. Micro Speakers
   - 9.2 cm (3-5/8") full range speaker × 2

* Noise reduction system manufactured under license from Dobly Laboratories Licensing Corporation.
* "Dobly" and the double-D symbol are trademarks of Dobly Laboratories Licensing Corporation.
**"Under license of Staar S.A. Brussels, Belgium."

Specifications

General

Frequency ranges	: FM 88–108 MHz MW 540–1600 kHz SW 6–18 MHz LW 150–350 kHz
Antennas	: Telescopic antennas for FM, SW Built-in ferrite core antenna for MW, LW
Input jacks	: AUX IN {Pin cord (RCA Cord)} Minimum input level 78 mV Input impedance 20 kΩ
Output jacks	: EXT SPK (4-pin) × 2, 4 W (3.2 Ω) Matching impedance 3.2–8 Ω PHONES (Stereo mini-plug 3.5 mm dia.) × 1, 0–50 mW (32 Ω)
Power output	: Max. 10 W (5 W + 5 W) (3.2 Ω) Music power 12 W (6 W + 6 W) (3.2 Ω, AC) FTC indication 2 watts per channel, min. RMS, at 3.2 ohms from 100 Hz to 15 kHz, with no more than 10% total harmonic distortion
Power supply	: AC 240/220/110 V, 50/60 Hz DC 12 V (R14 ("R14") battery × 8), Car battery through a car battery adapter
Power consumption	: 16 watts (with the POWER switch set to ON)
Dimensions	: 350(W) × 194(H) × 135(D) mm (13-3/8" × 7-3/4" × 5-3/8") (with antennas retracted and handle folded back)
Weight	: Approx. 3.6 kg (7.9 lbs) (including batteries)

Cassette deck section

Track system	: Stereo
Heads	: 2 Gap ferrite + magnet head for erasure, METAPERM head for recording/playback
Wow and flutter	: 0.2% (WRMS)
Fast forward time	: Approx. 105 sec. (C-60 cassette)
S/N ratio	: 50 dB (Metal)
Frequency response	: 60–14,000 Hz (Metal) 60–13,000 Hz (Normal)
Input jacks	: EXT MIC (stereo mini-plug 3.5 mm dia.) × 1, Minimum recording input level 0.78 mV (–62 dBV), Matching impedance 200 Ω–2kΩ
Output jacks	: PHONES (stereo mini-plug 3.5 mm dia.) × 1, output level 15 mW/32 Ω Matching impedance 16–32 Ω
Power output	: Total 30 m watts (15 mW + 15 mW) (32 Ω)
Power supply	: DC 3 V (R6 ("R6") battery × 2)
Dimensions	: 142(W) × 87.5(H) × 36(D) mm (5-5/8" × 3-3/8" × 1-1/2") (including pads and controls) 142(W) × 82.5(H) × 36(D) mm (5-5/8" × 3-1/2" × 1-1/2") (excluding pads and controls)
Weight	: Approx. 380 g (0.8 lbs) (including batteries)

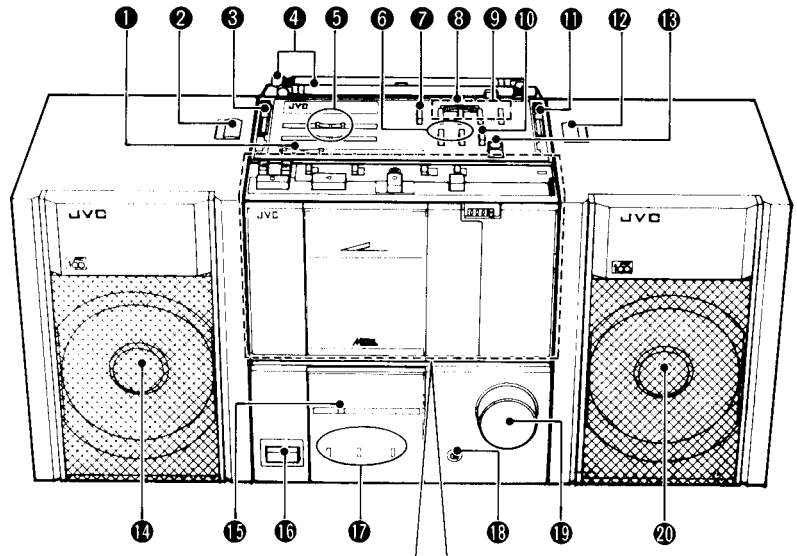
Speaker section

Type	: Full-range bass reflex system (book-shelf type)
Speaker units	: 9.2 cm (3-5/8") cone × 1
Impedance	: 3.2 Ω
Rated input	: 4 watts
Dimensions	: 104(W) × 150(H) × 99(D) mm (4-1/8" × 6" × 4") including pads
Weight	: Approx. 930 g (2 lbs) (with batteries)

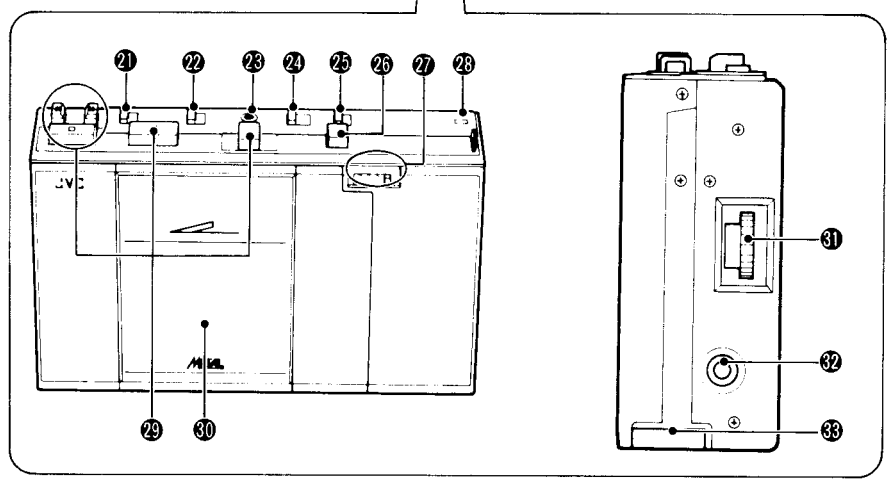
Design and specifications are subject to change without notice for improvement.

Names of Controls and Connection Terminals

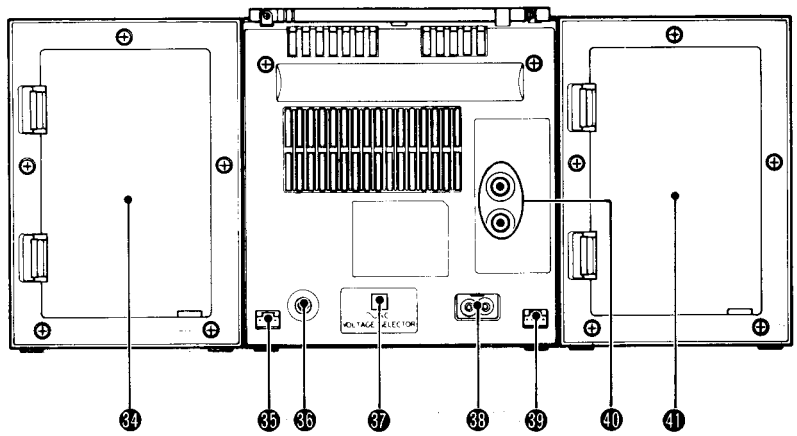
Stereo Receiver and Speaker Unit



Cassette Deck (Headphone stereo player)



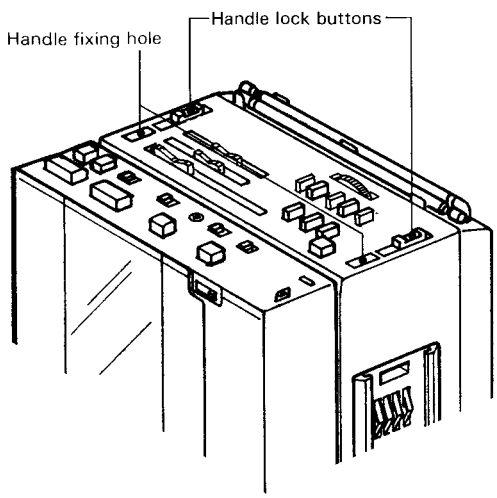
❶ VOLUME control
❷ Speaker release button (Left)
❸ Handle lock button (Left)
❹ Telescopic antennas
❺ BASS/TREBLE controls
❻ FUNCTION switch ((AUX (▬ ▬)/RADIO (■ ▬)/ TAPE (■ ■))
❼ MODE switch (STEREO/MONO)
❽ FINE TUNING knob for SW reception
❾ BAND switches (FM/SW2/SW1/AM)
❿ MUSIC SCAN switch
⓫ Handle lock button (Right)
⓬ Speaker release button (Right)
⓭ Cassette deck RELEASE button
⓮ Left speaker
⓯ Dial indicator
⓰ POWER switch
⓱ Indicators (POWER/TUNING/FM Stereo)
⓲ PHONES jack (3.5 mm dia.)
⓳ Tuning knob
⓴ Right speaker
㉑ PAUSE switch
㉒ TAPE switch
㉓ MIC jack (3.5 mm dia.)
㉔ BEAT CUT switch
㉕ ANRS/DOBLY B NR switch
㉖ EJECT button
㉗ COUNTER/reset button
㉘ BATTERY indicator
㉙ Cassette operation buttons
◀◀ CUE button
▶▶ REVIEW button
■ STOP button
◀ PLAY button
● Record button
㉚ Cassette holder
㉛ VOLUME control for headphone stereo
㉜ PHONES jack (3.5 mm dia.) for headphone stereo
㉝ Battery compartment cover



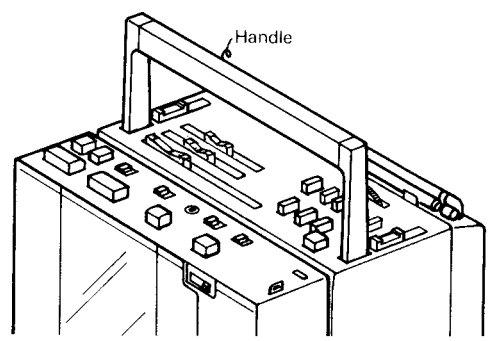
34 Battery compartment cover (Right)
35 Speaker jack (Right)
36 DC IN jack (DC 12 V)
37 Voltage selector
38 AC IN jacks
39 Speaker jack (left)
40 AUX IN jacks
41 Battery compartment cover (Left)

Attaching and Detaching the Handle

Attaching the handle



Set the handle lock buttons to the antenna side, fix the handle, and set the handle lock buttons to the deck side (▼ HANDLE LOCK mark).



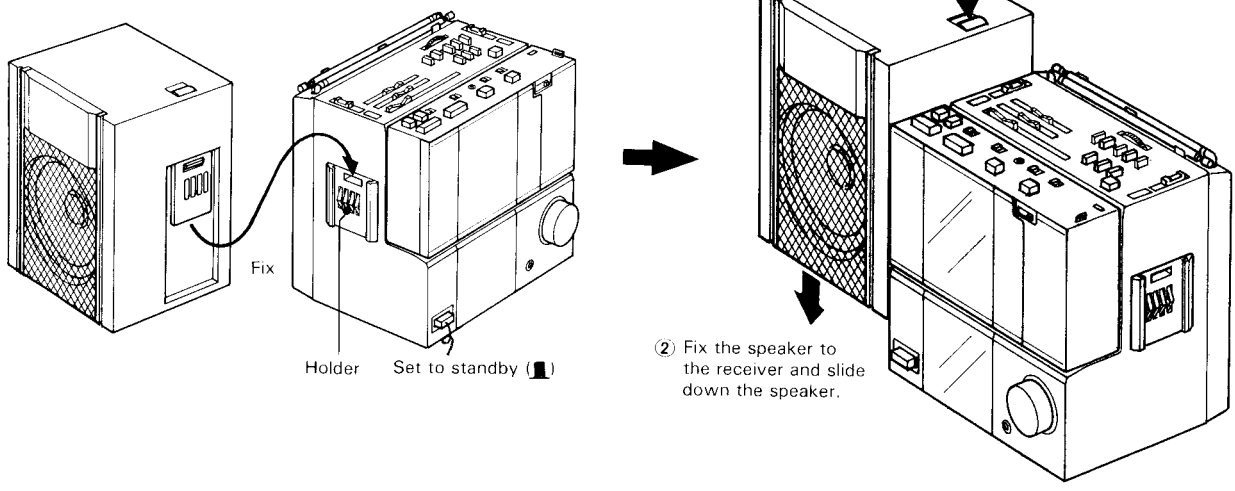
Note: Make sure that the handle is firmly locked when carrying the unit.

Attaching and Detaching the Speakers

When using the speakers attached to the receiver

With direct connection, no connection cords are required.

1. Insert the speaker slot into the receiver holder as shown and slide down the speaker.



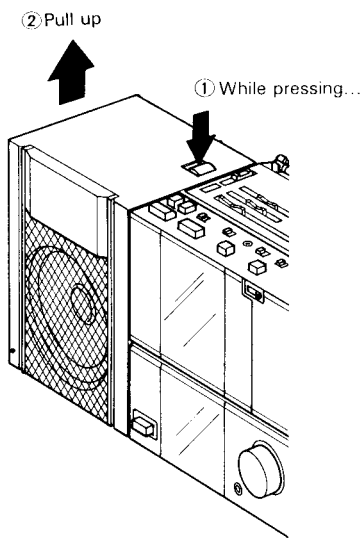
Attach the right speaker in the same way.

Note: Make sure that the POWER switch is set to standby (■) when attaching or detaching the speakers.

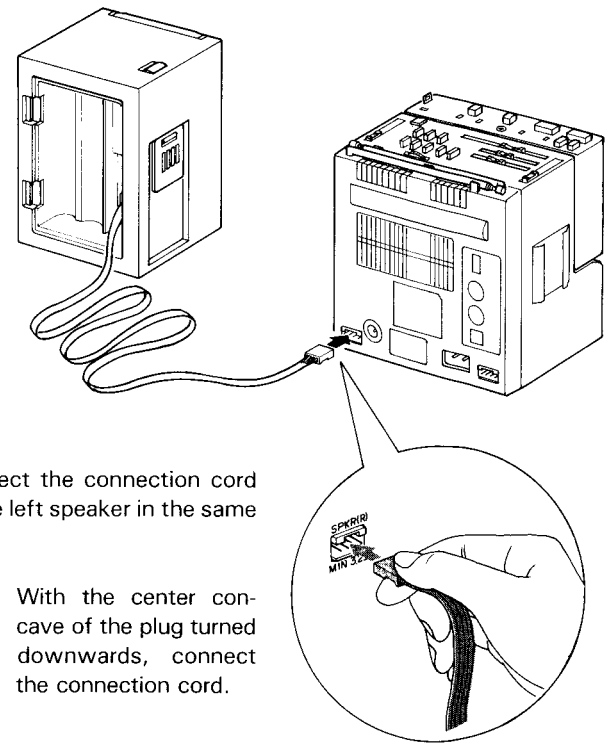
When using the speakers detached from the receiver

A better stereo effect can be obtained when the built-in connection cords with plugs are used.

1. Lift the speaker while pressing the speaker release button on top of the speaker as shown.



2. Take out the connection cord with a plug from the rear of the speaker and connect to the receiver as shown.



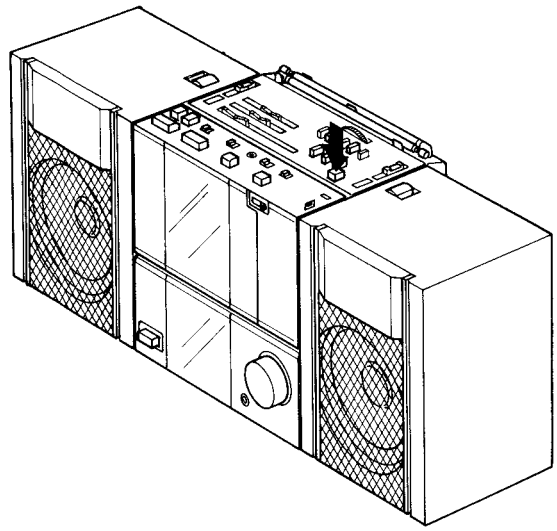
Connect the connection cord of the left speaker in the same way.

Note: With the center concave of the plug turned downwards, connect the connection cord.

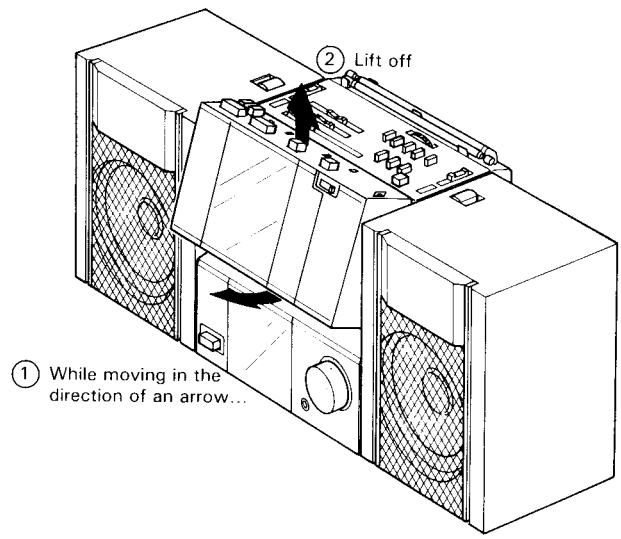
Attaching and Detaching the Deck Section

Detaching the deck section from the main unit

1. Press the RELEASE button. The lock is release and the lower part of the cassette recorder comes out slightly.



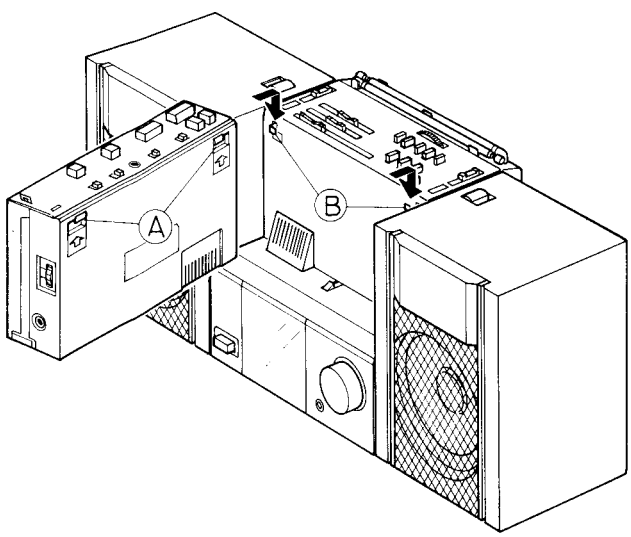
2. Detach it as shown.



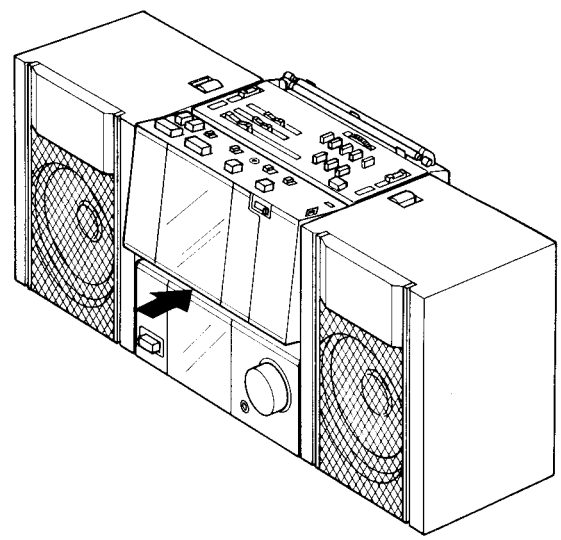
Note: Make sure that the POWER switch is set to OFF (⏻)) When attaching or detaching the deck section.

Attaching the deck section to the main unit

1. Align concaves (A) of the deck section and convexes (B) of the receiver section.



2. Press the lower part of the deck section in the direction of the arrow until it locks. (A click sound will be heard when it locks completely.)



Note: Confirm that the deck section is securely attached to the main unit.

Main Parts Location

Receiver Section

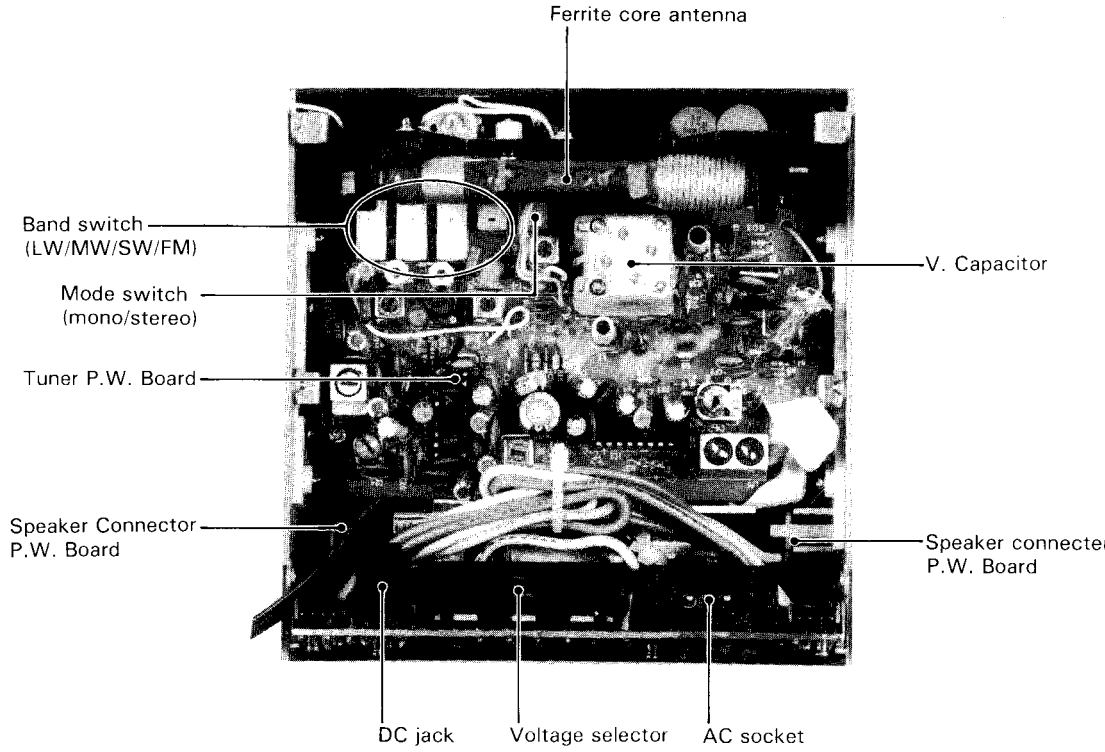


Fig. 1

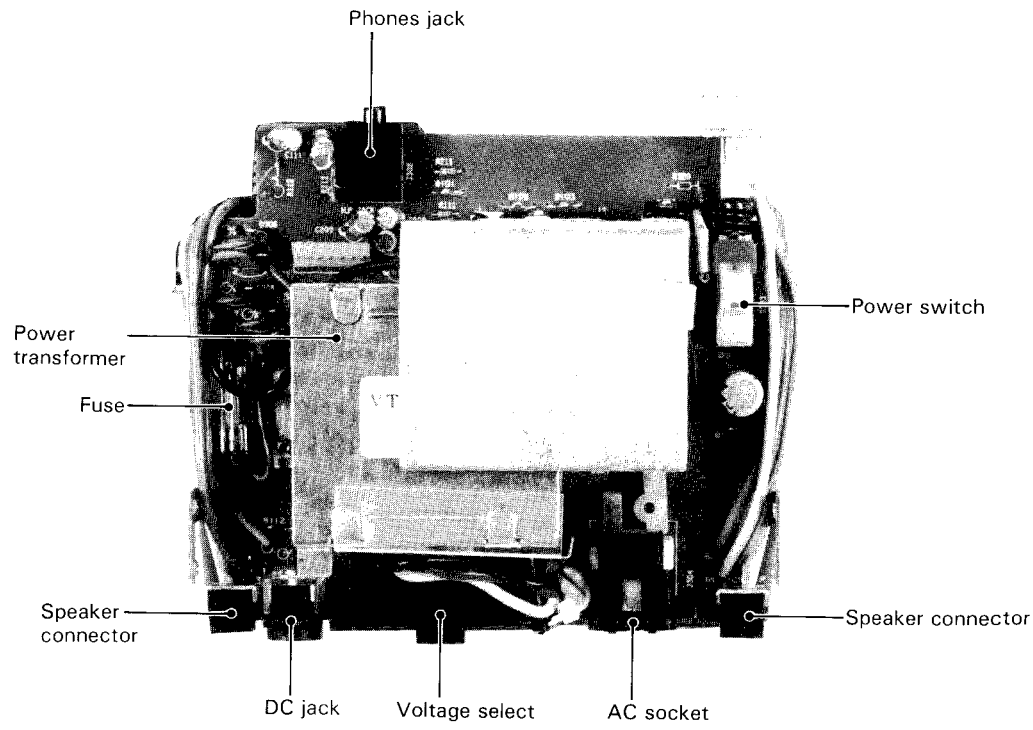


Fig. 2

Deck Section

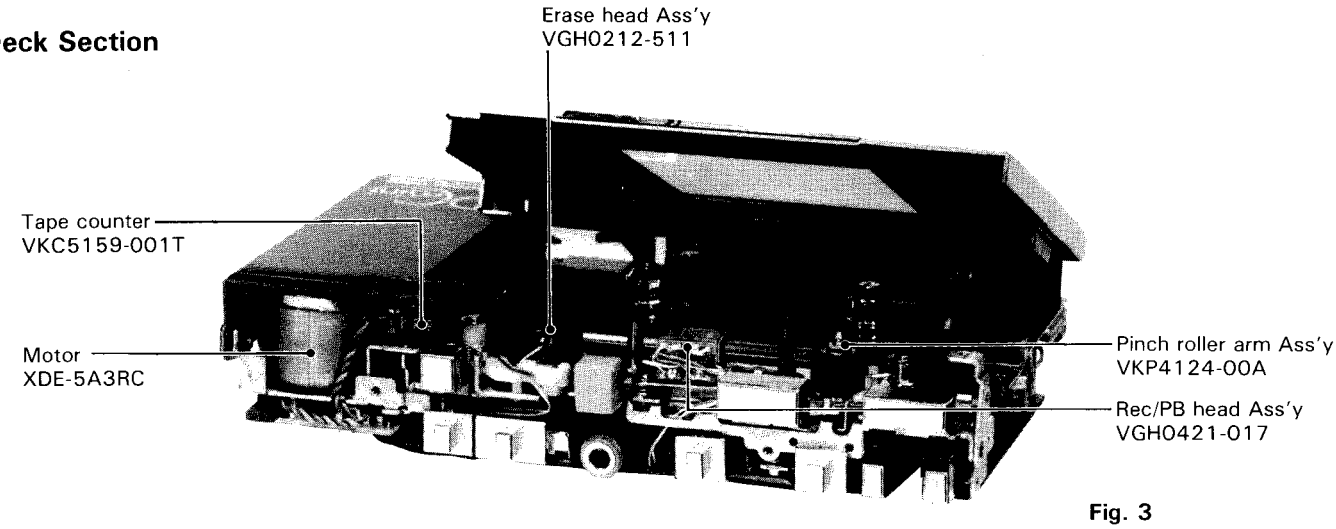


Fig. 3

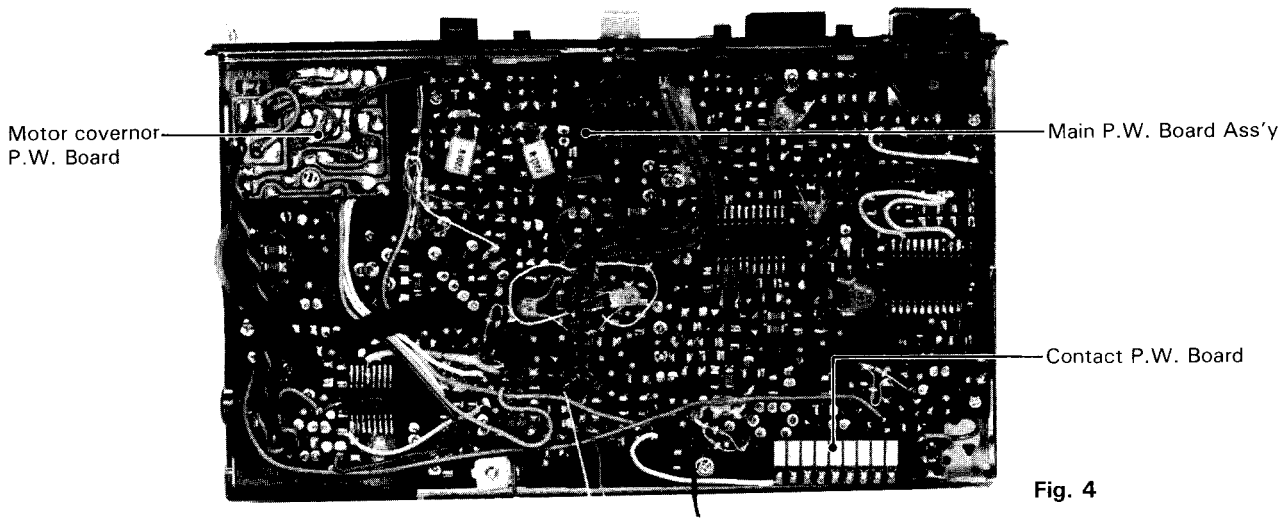


Fig. 4

Speaker Section

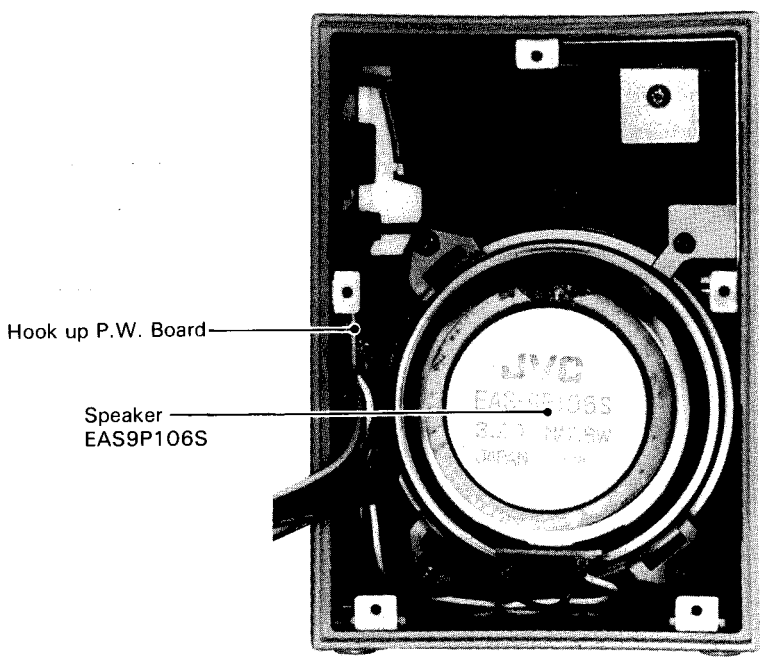


Fig. 5

Disassembling the Receiver Section

A. Removal of rear cabinet ass'y (Fig. 6)

1. Remove 4 screws (1) SDSP3004R from the right and left sides of the front cabinet.
2. Remove the telescopic antenna and the connector wires of the AUX board to remove the rear cabinet ass'y.

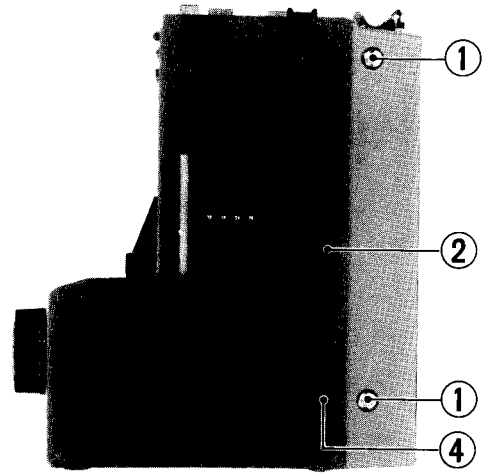


Fig. 6

B. Removal of tuner board + preamplifier P.W. Board (Fig. 6, 7 and 8)

1. Remove the rear cabinet ass'y.
2. Remove 2 screws (2) SSSP30006M from the right and left sides of the front cabinet.
3. Remove screw (3) SPSK2008N from the top plate and pull the tuner board + preamplifier board out of the cabinet.

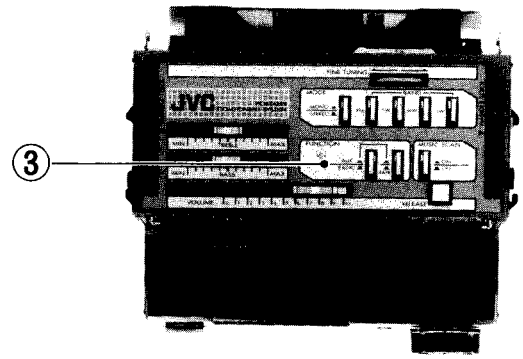


Fig. 7

C. Removal of power amplifier P.W. Board ass'y (Figs 6 and 8)

1. Remove the rear cabinet ass'y.
2. Remove 2 screws (4) SSSP3006M from the right and left sides of the front cabinet.
3. Cut the clamp of the speaker connector wires and take the power amplifier board ass'y out of the cabinet.

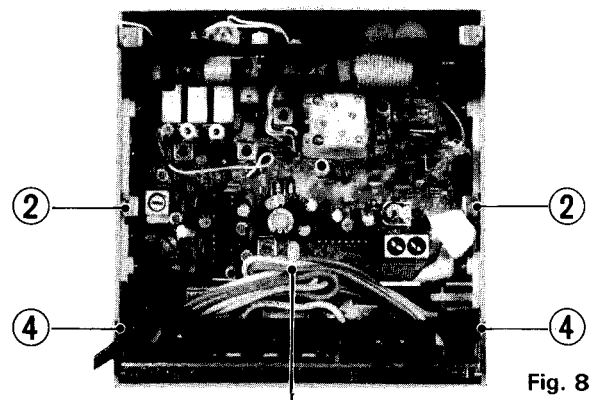


Fig. 8

D. Replacement of power IC (Fig. 9)

1. Take out the power amplifier board and unsolder the IC.
2. Remove screw (5) SBSB2606Z at the side of transistor Q306 and take out the power IC together with the radiation unit.
3. Remove screw (5) SBSB2606Z at the IC side to remove the power IC.

Note: When remounting it, apply silicone grease G-746 to the IC and the radiation unit.

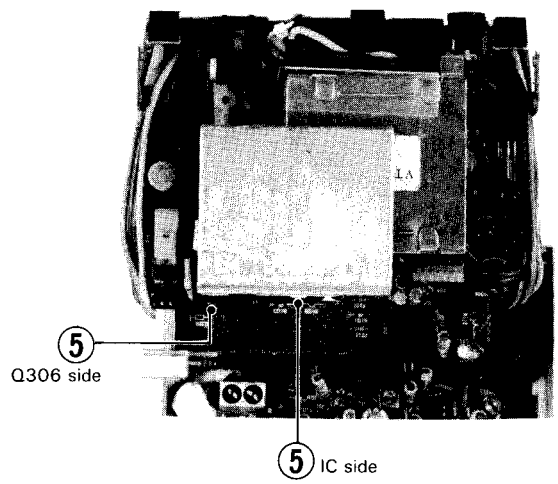
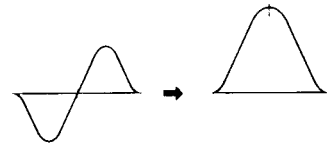


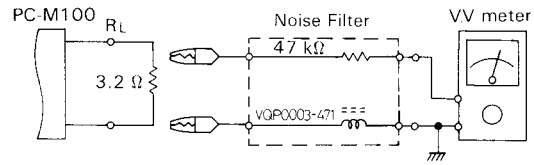
Fig. 9

Tuner Alignment

BASIC CONDITIONS

POWER SOURCE OF THE RECEIVER	DC 12 V, AC240/220/110 V, 50/60 Hz.
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.4 V)/3.2 Ω
MODULATION OF SSG	400 Hz. 30%

Item	Description
1. AM IF ALIGNMENT	
1-1 Conditions of the receiver.	
(1) Power source:	DC 4.5 V (When the power is supplied directly to the tuner in the receiver, the voltage should be adjusted to the proper level which shall be required by the tuner.)
(2) Function switch position:	RADIO
(3) Band select switch:	MW
(4) Volume control:	Minimum gain position
(5) Tone control:	Center (Bass, Treble) position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
1-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP4
(2) Tuner output:	Positive side to TP2 Negative side to TP3]
1-3 Aligning position:	T3,4
1-4 Alignment (Waveform):	Adjust AM I.F.T. (above mentioned aligning position) so that maximum and symmetrical wave form can be obtained. In this case, the wavehead should be appeared at the center marker (450 kHz) on the scope of Sweeper.
2. FM IF ALIGNMENT	
2-1 Conditions of the receiver	
(1) Power source:	Same as mentioned in item 1-1
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	Minimum gain position
(5) Tone control:	Center (Bass, Treble) position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
2-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP1
(2) Tuner output:	Positive side to TP2 Negative side to TP3
NOTE a) Attach a capacitor (30 pF) and a resistor (30 kΩ) to the positive side cable which shall be led from Sweeper input. b) Attach a resistor (100 kΩ) in series to the positive side cable which shall be led from Sweeper output.	
2-3 Aligning position:	a) IF Waveform: T1 b) Discriminate Waveform: T2 ("S" curve waveform)
2-4 Alignment (Waveform):	Adjust the discriminate coil (T2) so that "S" curve waveform may be changed to IF waveform as shown in following figure.  After above, adjust T1 so that max. sensitivity and symmetrical IF waveform can be obtained on the scope of Sweeper.
b) Discriminate Waveform:	Adjust the discriminate T2 again so that above symmetrical IF waveform may be changed to balanced "S" curve waveform.

Item	Description
3. AM RF ALIGNMENT 3-1 Conditions of the receiver. (1) Power source: (2) Function switch position: (3) Volume control: (4) Tone control: (5) Variable capacitor: 3-2 Conditions of SSG. (1) Modulation: (2) Frequency: (3) Output level of the attenuator in SSG: 3-3 Power output measuring position: 3-4 Alignment:	 Same as mentioned in item 1-1. RADIO 50 mW Center (Bass, Treble) position Refer the following list shown in item 3-4. Refer the basic condition Refer the following list shown in item 3-4. Approx. 50 mW Speaker terminals 

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	MW	Loop Antenna	520 kHz	Max. capacity	L7
2			1,650 kHz	Min. capacity	TC-7
3			Ajust the above aligning position (L7 & TC-7) repeatedly so that the tuner can be received above frequency range (band width).		
4			620 kHz	to be received 620 kHz	L3
5			1,400 kHz	to be received 1,400 kHz	TC-3
6			Adjust the above aligning position (L3 & TC-3) repeatedly so that the tuner can be obtained the best sensitivity.		
7	LW	Loop Antenna	145 kHz	Max. capacity	L6
8			360 kHz	Min. capacity	TC-6
9			Adjust the above aligning position (L6 & TC-6) repeatedly so that the tuner can be received above frequency range (band width)		
10			160 kHz	to be received 160 kHz	L2
11			350 kHz	to be received 350 kHz	TC-2
12			Adjust the above aligning position (L2 & TC-2) repeatedly so that the tuner can be obtained the best sensitivity.		
13	SW	Dummy Antenna	5.8 MHz	Max. capacity	L8
14			18.6 MHz	Min. capacity	TC-8
15			Adjust the above aligning position (L8 & TC-8) repeatedly so that the tuner can be received above frequency range (band width).		
16			6.0 MHz	to be received 6.0 MHz	L4
17			18.0 MHz	to be received 18.0 MHz	TC-4
18			Adjust the above aligning position (L4 & TC-4) repeatedly so that the tuner can be obtained the best sensitivity.		

Item	Description
4. FM RF ALIGNMENT	
4-1 Conditions of the receiver.	
(1) Power source:	Same as mentioned in item 1-1.
(2) Function switch position:	RADIO
(3) Band select switch:	FM
(4) Volume control:	50 mW
(5) Tone control:	Center (Bass, Treble) position
(6) Variable capacitor:	Refer the following list shown in item 4-3.
4-2 Condition of FM SSG.	
(1) Modulation:	Refer the basic condition
(2) Frequency:	Refer the following list shown in item 4-3.
(3) Output level of the attenuator in FM SSG:	The level shall be decided by the load resistance of the receiver mentioned in the basic conditions.
4-3 Alignment:	

	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of SSG	Variable Capacitor Position	Aligning Position
1	FM	Dummy Antenna (Balanse Trans 75 Ω ~ 300 Ω TP-5, TP-6)	87.5 MHz	Max. capacity	L5
2			109.0 MHz	Min. capacity	TC-5
3			Adjust the above aligning position (L5 & TC-5) repeatedly so that the tuner can be received above frequency range (band width).		
4			90 MHz	to be received 90 MHz	L1
5			108 MHz	to be received 108 MHz	TC-1
6			Adjust the above aligning position (L1 & TC-1) repeatedly so that the tuner can be obtained the best sensitivity.		

FM MPX Alignment

A. 19 kHz Alignment (Regular Method)
1. Connect a frequency counter to the test point TP7 (earth = TP3).
2. Supply the monaural signal (98 MHz, 60 dB) across the test points TP5 and TP6.
3. Adjust the variable resistor VR1 so that the frequency becomes 19 kHz ± 100 Hz.

B. 19 kHz Alignment (Simplified Method)
1. Tune to an FM stereo broadcast.
2. Set the variable resistor VR1 to the minimum position of the range in where the Lch and Rch selecting.

Parts Arrangement for Alignment

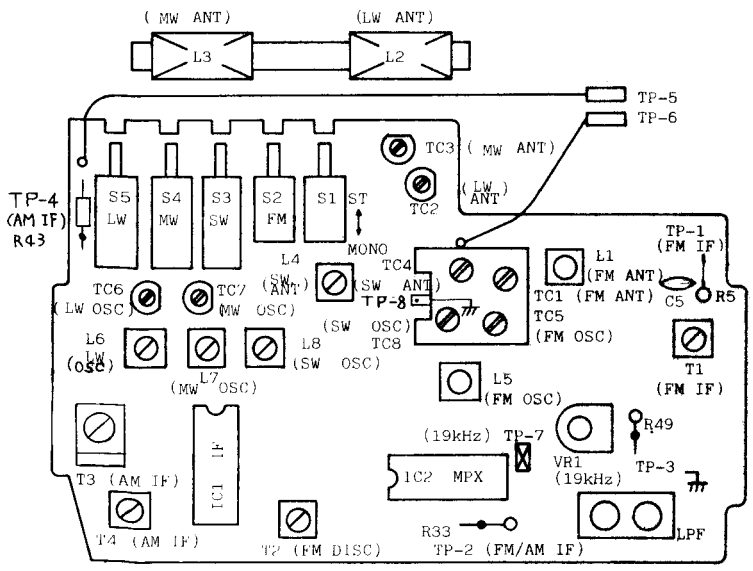
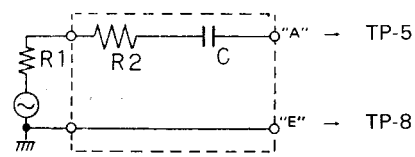


Fig. 10

Dummy Antenna (SW)



R1 + R2 = 80 Ω
C = 10 pF
R1: Output impedance of S.S.G.

Fig. 11

Block Diagram

Tuner Section

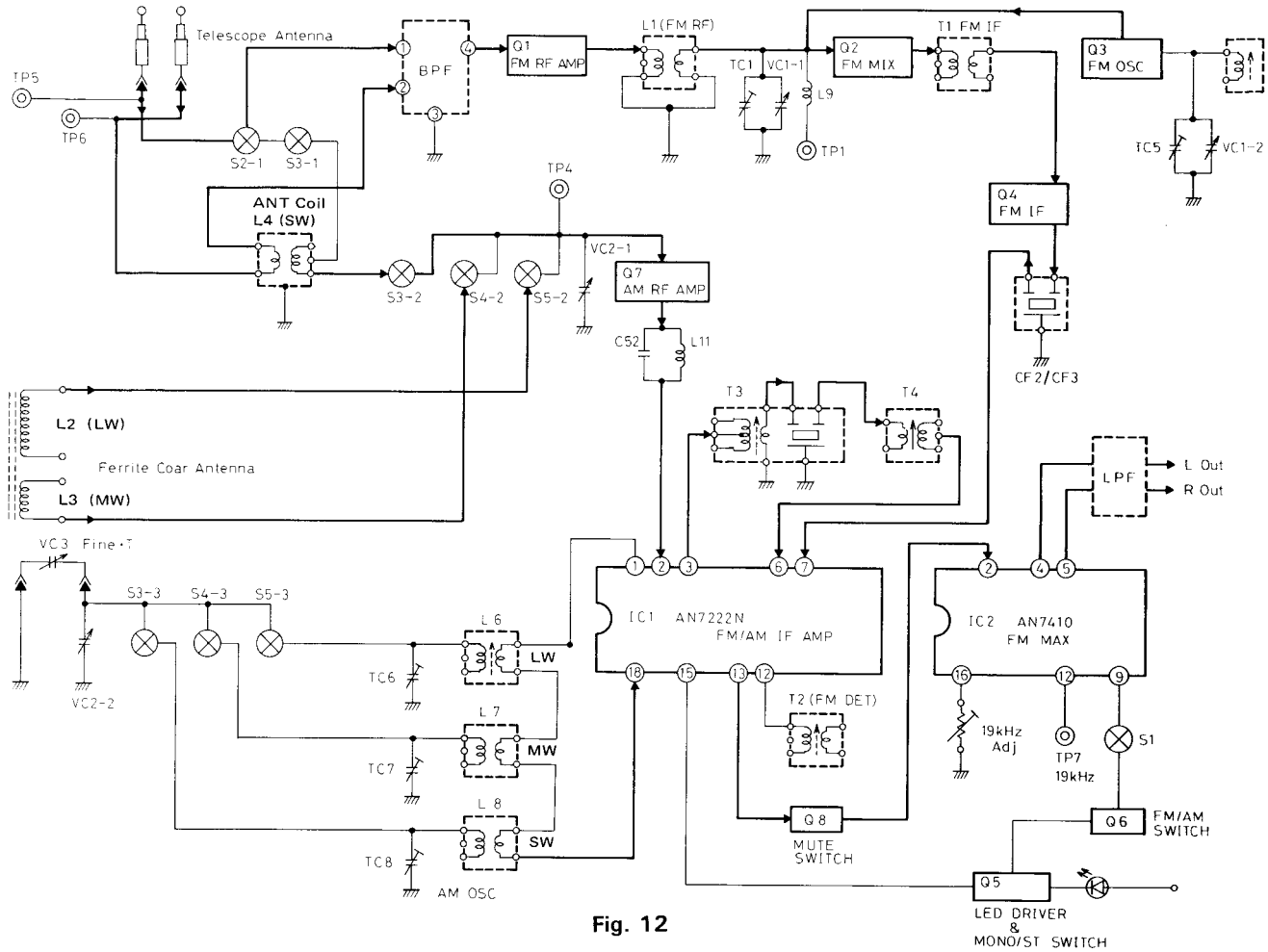


Fig. 12

Power Amp Section

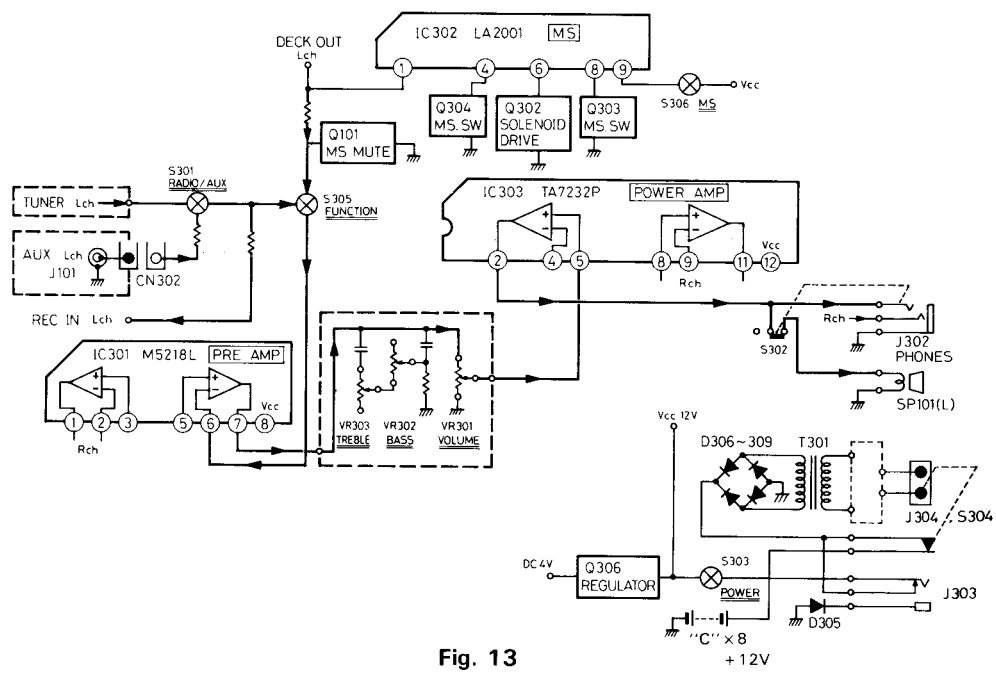


Fig. 13

Standard Schematic Diagram of PC-M100 (Tuner Circuit)

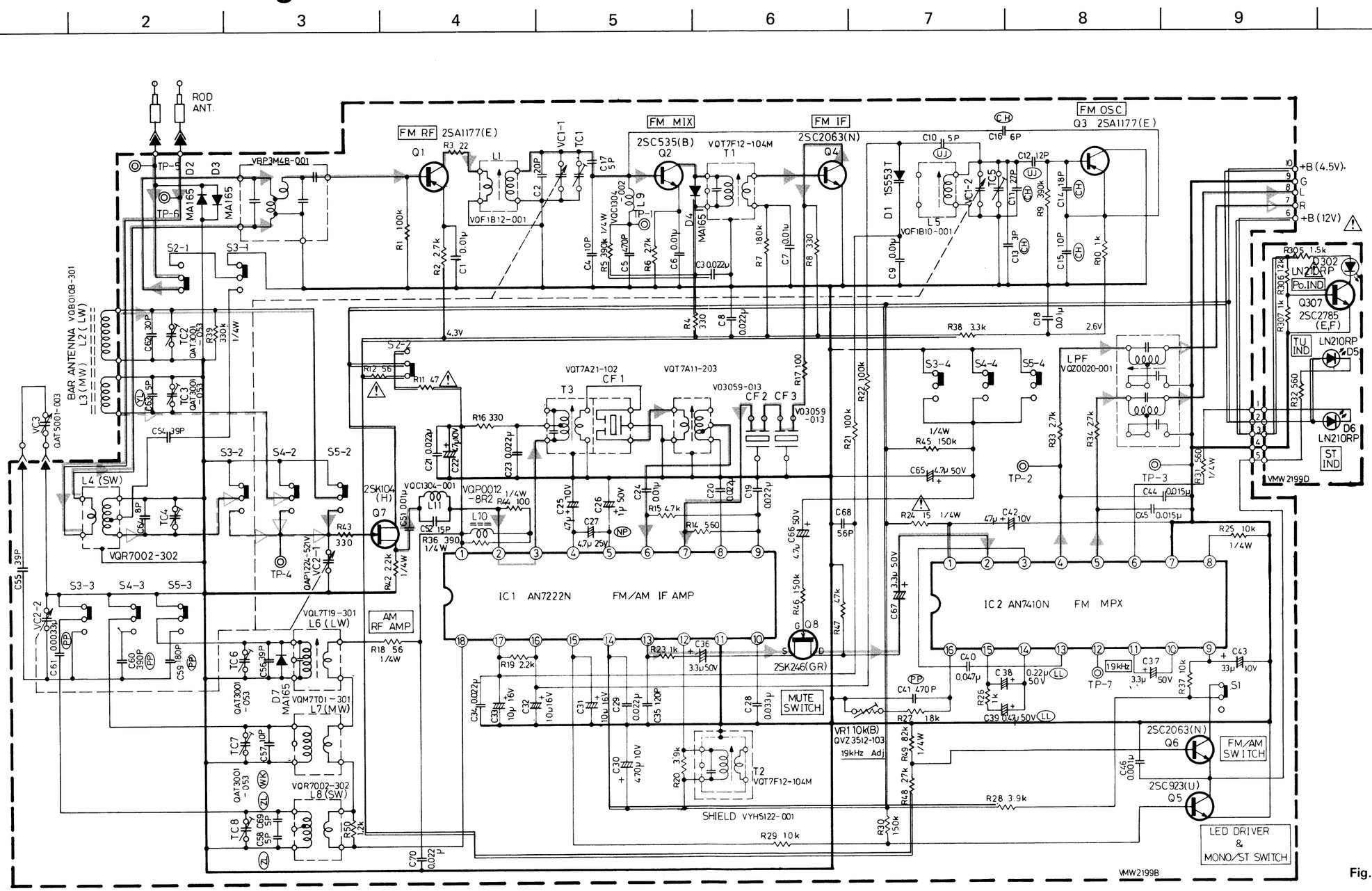


Fig. 14

NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IC1	0 (4.3)	0 (4.3)	0.1 (4.3)	0.3 (1.0)	0.3 (0.7)	4.0 (4.0)	4.0 (4.0)	4.0 (4.0)	4.0 (4.0)	3.8 (3.5)	0 (0)	4.5 (4.5)	1.3 (0.8)	4.5 (4.5)	0.1 (0.1)	1.4 (0.1)	1.4 (0.1)	0.1 (4.3)
IC2	4.3	1.4	1.4	2.4	2.4	3.1 (0.8)	0	0.5	1.7 (0)	1.3	1.3	2.1 (2p-p)	1.3	1.3	1.3	0.3 (1.5p-p)		

Tr. Q											
E	1.6	1.3	2.15	0	0 (0)	3.3 (0)	1.5 (1.35)	0	S		
G	0.03	4.35	0	3.8	3.3 (0)	3.7 (0)	4.5 (4.5)	0	D		
B	0.6	1.9	1.5	0.6	0.35 (0.6)	3.2 (0.6)	0 (0)	0 (4.5)	G	(MUTE) −P-P	

VOLTAGES POSITION : FM, (AM), [FM SIGNAL] / UNIT; VOLT

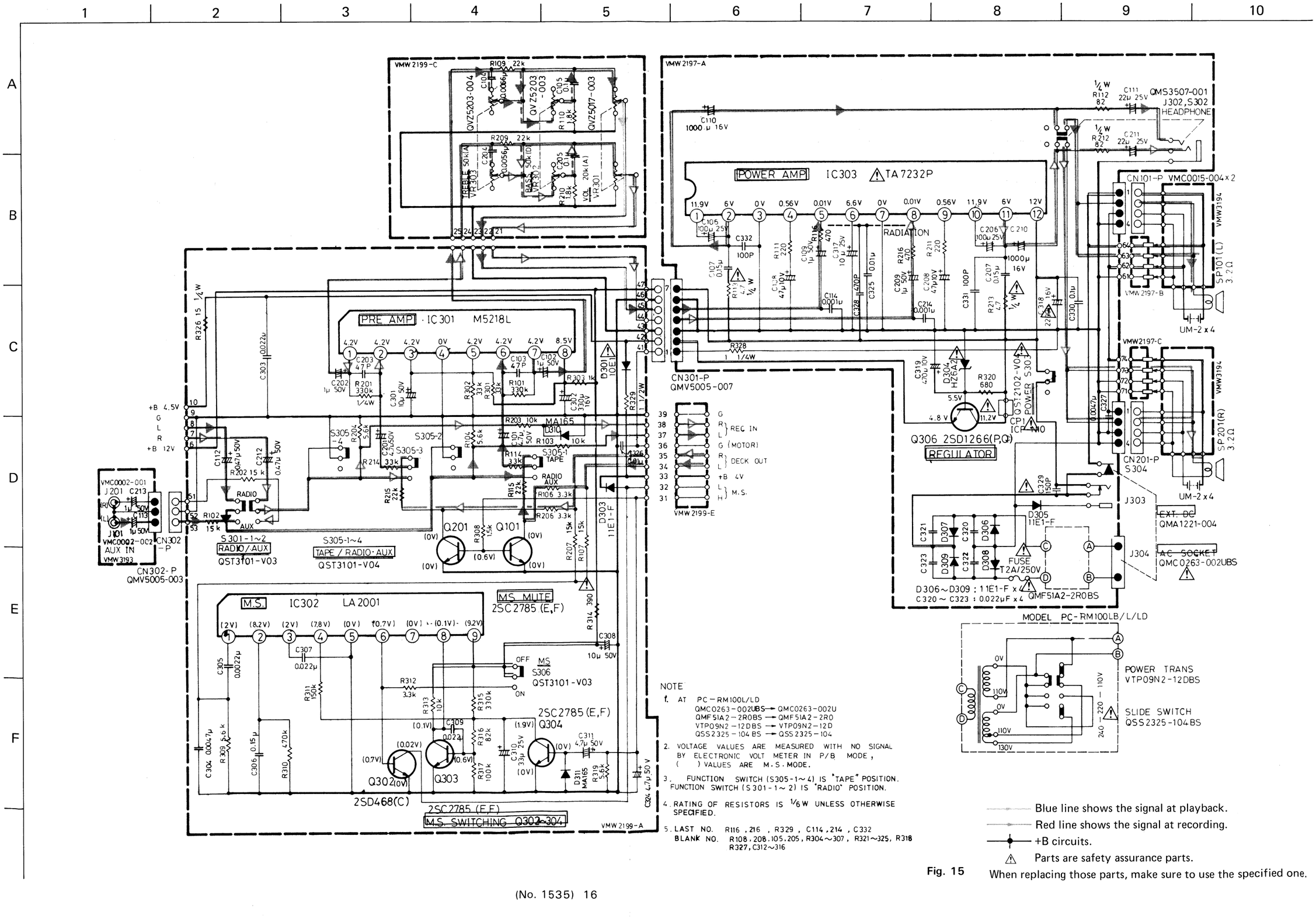
NOTE
1 VOLTAGE VALUES ARE MEASURED WITH NO SIGNAL USING ELECTRONIC VOLT METER
2 S2~5 (BAND SELECT SWITCH) IS FM POSITION
S1 (MONAURAL-STEREO SWITCH) IS STEREO POSITION
S1~ S5(QST3521-V01)
3 LAST NO R50,C70
4 BLANK NO R13,35, 40, 41
C47, 49, 50, 53, 48
5 RATING OF RESISTORS IS 1/6W UNLESS OTHERWISE SPECIFIED.

M/S	FM	SW2	SW1	MW
S1	S2	S3	S4	S5

BOTTOM VIEW OF THE SWITCHES
(④ IS SHOWTING SWITCH)

Blue line shows the signal at FM.
Red line shows the signal at AM (LW).
Red line shows the signal at AM (SW/MW).
+B circuits.
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Standard Schematic Diagram of PC-M100 (Amp Circuit)



NOTE

1. AT PC-RM100L/LD
   QMC0263-002UBS → QMC0263-002U
   QMF51A2-2R0BS → QMF51A2-2R0
   VTP09N2-12DBS → VTP09N2-12D
   QSS2325-104BS → QSS2325-104
2. VOLTAGE VALUES ARE MEASURED WITH NO SIGNAL BY ELECTRONIC VOLT METER IN P/B MODE, ( ) VALUES ARE M.S. MODE.
3. FUNCTION SWITCH (S305-1~4) IS "TAPE" POSITION. FUNCTION SWITCH (S301-1~2) IS "RADIO" POSITION.
4. RATING OF RESISTORS IS 1/6W UNLESS OTHERWISE SPECIFIED.
5. LAST NO. R116, 216, R329, C114, 214, C332
   BLANK NO. R108, 208, 105, 205, R304~307, R321~325, R318 R327, C312~316

Blue line shows the signal at playback.
Red line shows the signal at recording.
+B circuits.
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Fig. 15

Wiring Connections (Receiver Section)

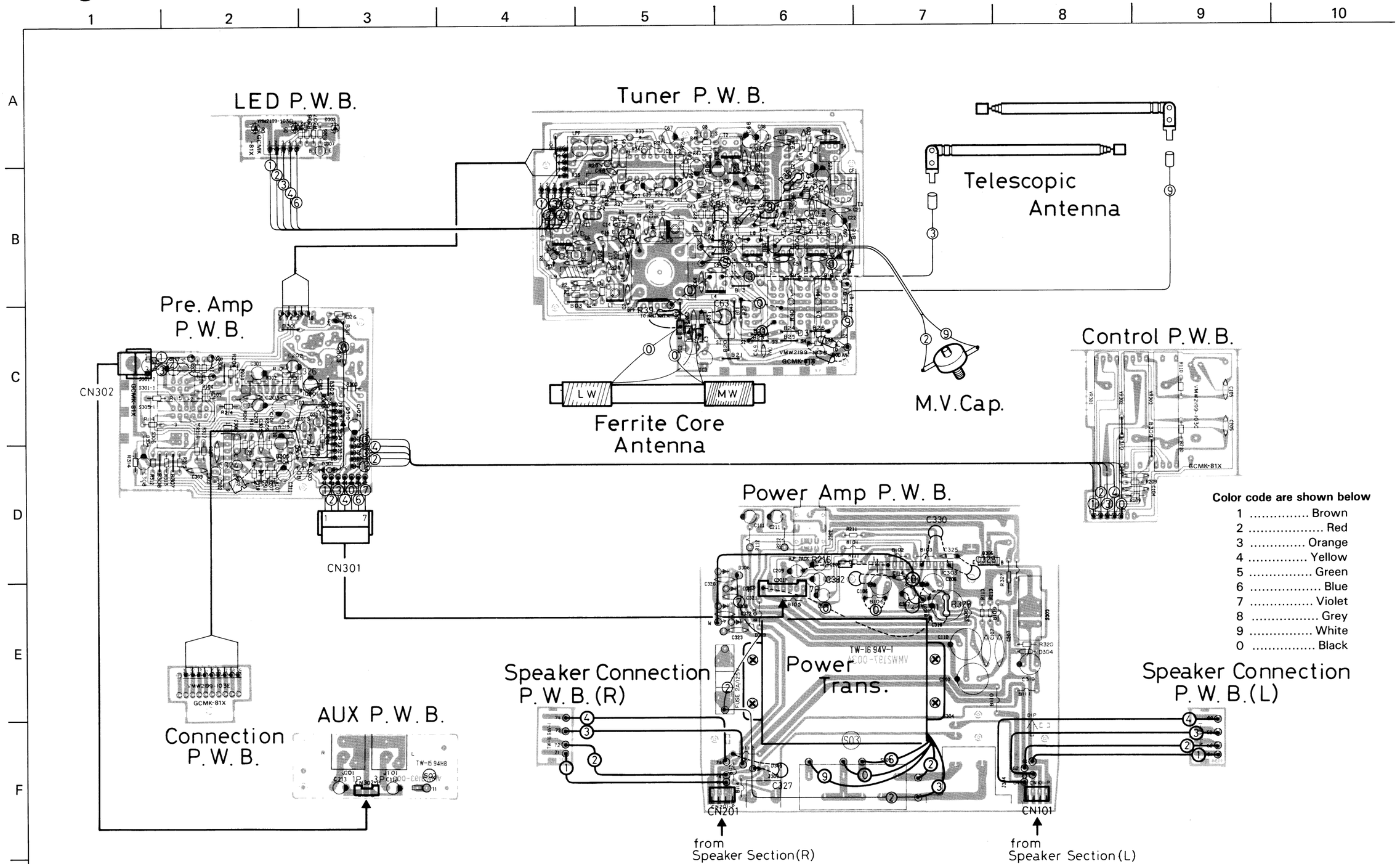


Fig. 16

How to Engage Dial Cord

1. Turn the dial drum fully clockwise (to the highest frequency).
2. Use Kevlar cord (560 mm long and 0.4 mm in diameter).
3. Install the string in the sequence of the numbers.

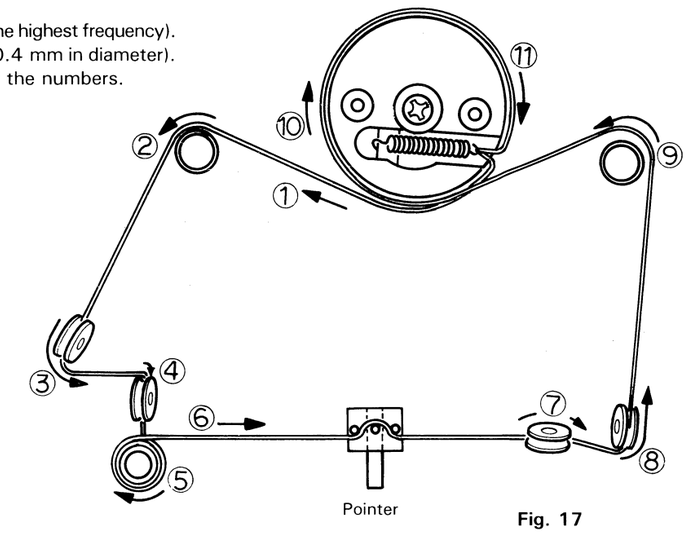


Fig. 17

P.W. Board Parts and Parts List (Tuner P.W. Board)

Tuner P.W. Board

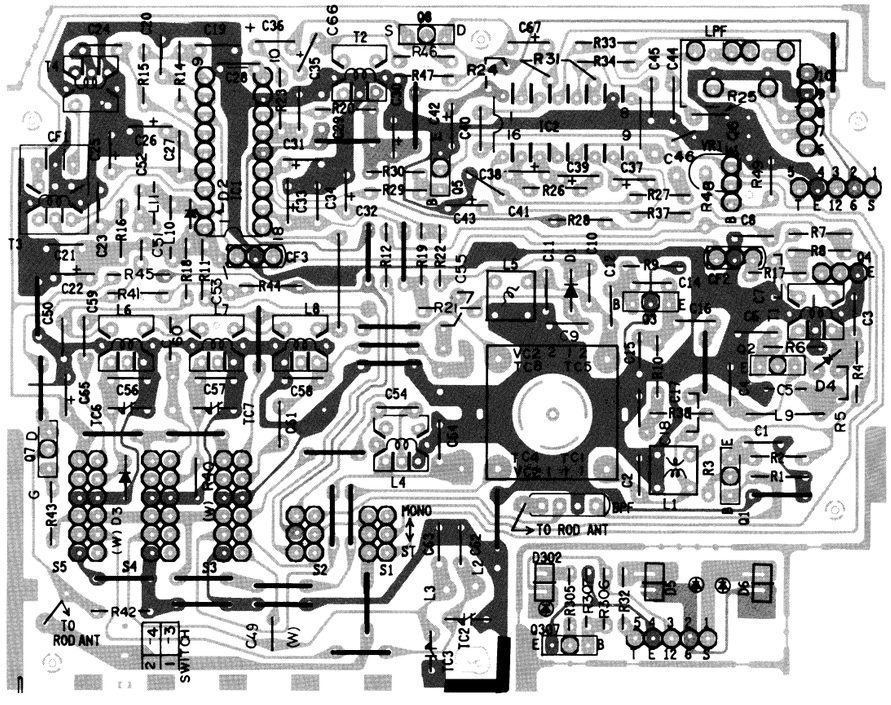


Fig. 18

Tuner P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC1	AN7222N	IC		1
	IC2	AN7410N	〃		1
	Q1,3	2SA1177(E)	Transistor		2
	Q2	2SC535(B)	〃		1
	Q4,6	2SC2063(N)	〃		2
	Q5	2SC923(U)	〃		1
	Q7	2SK104(H)	F.E. Transistor		1
	Q8	2SK246(GR)	〃		1
	D1	1S553T	Var. Cap		1
	D2,3,4,5	MA165	Si. Diode		4
	T1,2	VQT7F12-104M	IFT		2
	T3,CF1	VQT7A21-102	〃		1
	T4	VQT7A11-203	〃		1
	CF2,CF3	V03059-013	C. Filter		2
	B.P.F.	VBP3M4B-001	B.P. Filter		1
	L.P.F.	VQZ0020-001	L.P. Filter		1
	L1	VQF1B12-001	RF Coil	FM	1
	L4	VQR7002-302	〃	SW	1
	L5	VQF1B10-001	OSC Coil	FM	1
	L6	VQL7T19-301	〃	LW	1
	L7	VQM7U01-301	〃	MW	1
	L8	VQR7002-302	〃	SW	1
	L9	VQC1304-002	Coil	FM	1
	L10	VQP0012-8R2	Inductor		1
	L11	VQC1304-001	Coil		1
	S1～S5	QST3521-V01	Push Switch		1
	VC1-1,2	QAP1224-521V	V. Capacitor		1
	VC2-1,2				
	TC1,4,5,8				
	TC2,3,6,7	QAT3001-053	T. Capacitor		4
	VR1	QVZ3512-103	V. Resistor		1
	——	QRD161J-	C. Resistor	—— 1/6 W	38
	R5	QRD141J-394S	〃	390 kΩ 1/4 W	1
	R18	QRD141J-560S	〃	56 Ω 〃	1
⚠	R24	QRD141J-150S	〃	15 Ω 〃	1
	R25	〃 -103S	〃	10 kΩ 〃	1
	R31	〃 -561S	〃	560 Ω 〃	1
	R36	QRD141J-391S	〃	390 Ω 〃	1
	R39	〃 -334S	〃	330 kΩ 〃	1
	R42	〃 -222S	〃	2.2 kΩ 〃	1
	R44	〃 -101S	〃	100 Ω 〃	1
	R45	〃 -154S	〃	150 kΩ 〃	1
	R49	〃 -823S	〃	82 kΩ 〃	1
	C1,6,7,18 24,51	QCF11HP-103	〃	0.01 μF 50 V	6
	C2	QCS11HJ-200	〃	20 pF 〃	1
	C3,19,20 21,29,34 70	QCF11HP-223	〃	0.022μF 〃	7
	C4	QCS11HJ-100	〃	10 pF 〃	1
	C5	QCS11HJ-471	〃	470 pF 〃	1
	C8	QCC11EM-223	〃	0.022 μF 25 V	1
	C9	〃 -103	〃	0.01 μF 〃	1
	C10	QCT05UJ-5R0	〃	5 pF 50 V	1
	C11	QCT05CH-270	〃	27 pF 〃	1
	C12	QCT05UJ-120	〃	12 pF 〃	1
	C13	QCT05CH-3R0	〃	3 pF 〃	1
	C14	〃 -180	〃	18 pF 〃	1
	C15	〃 -100	〃	10 pF 〃	1
	C16	〃 -6R0	〃	6 pF 〃	1
	C17	QCS11HJ-5R0	〃	5 pF 50 V	1
	C22	QET41AR-475	E. Capacitor	4.7 μF 10 V	1
	C23	QCC11EM-223	C. Capacitor	0.022 μF 25 V	1
	C25	QET41AR-476	E. Capacitor	47μF 10 V	1
	C26	QET41HR-105	〃	1μF 50 V	1

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	C27	QEN41EM-475	N.P. Capacitor	4.7 μF 25 V	1
	C28	QCC11EM-333	C. Capacitor	0.033μF 〃	1
	C30	QET41AR-477	E. Capacitor	470 μF 10 V	1
	C31,32,33	QET41CR-106	〃	10 μF 16 V	3
	C35	QCS11HJ-121	C. Capacitor	120 pF 50 V	1
	C36,37	QET41HR-335	E. Capacitor	3.3 μF 〃	2
	C38	QEB41HM-224M	〃	0.22 μF 〃	1
	C39	〃 -474	〃	0.47 μF 〃	1
	C40	QCC11EM-473	C. Capacitor	0.047 μF 25 V	1
	C41	QFP82AJ-471	P.P. Capacitor	470 pF 100 V	1
	C42	QET41AR-476	E. Capacitor	47 μF 〃	1
	C43	〃 -336	〃	33 μF 〃	1
	C44,45	QFN41HK-153	M. Capacitor	0.015 μF 50 V	2
	C46	QCY41HK-102	C. Capacitor	0.001 μF 〃	1
	C52	QCS11HJ-150	〃	15 pF 〃	1
	C54,55,56	QCS11HJ-390	〃	39 pF 50 V	3
	C57	QCT05WK-100	〃	10 pF 〃	1
	C58,69	QCT05ZL-5R0	〃	5 pF	2
	C59	QFP42AJ-181	P.P. Capacitor	180 pF 100V	1
	C60	QFP42AJ-391	P. Capacitor	390 pF 50 V	1
	C61	QFP42AJ-332	P.P. Capacitor	0.0033μF 〃	1
	C62	QCS11HJ-300	C. Capacitor	30 pF 〃	1
	C63	QCT05YL-5R0	〃	5 pF 〃	1
	C64	QCS11HJ-8R0	〃	8 pF 〃	1
	C65,66	QET41HR-475	E. Capacitor	4.7 μF 〃	2
	C67	〃 -335	〃	3.3 μF 〃	1
	C68	QCS11HJ-560	C. Capacitor	56 pF 50 V	1
	VC3	QAT5001-003	M.V. Capacitor		1
	L2,3	VQB010B-301	Bar Ant. Ass'y	LW,MW	1

LED P.W. Board Parts List

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	D5	LN210RP	LED	TU.	1
	D6	〃	〃	ST.	1
	D302	〃	〃	PO.	1
	Q307	2SC2785(E,F)	Transistor		1
	R305	QRD161J-152	C. Resistor	1.5 kΩ 1/6 W	1

Power Amplifier P.W. Board Parts

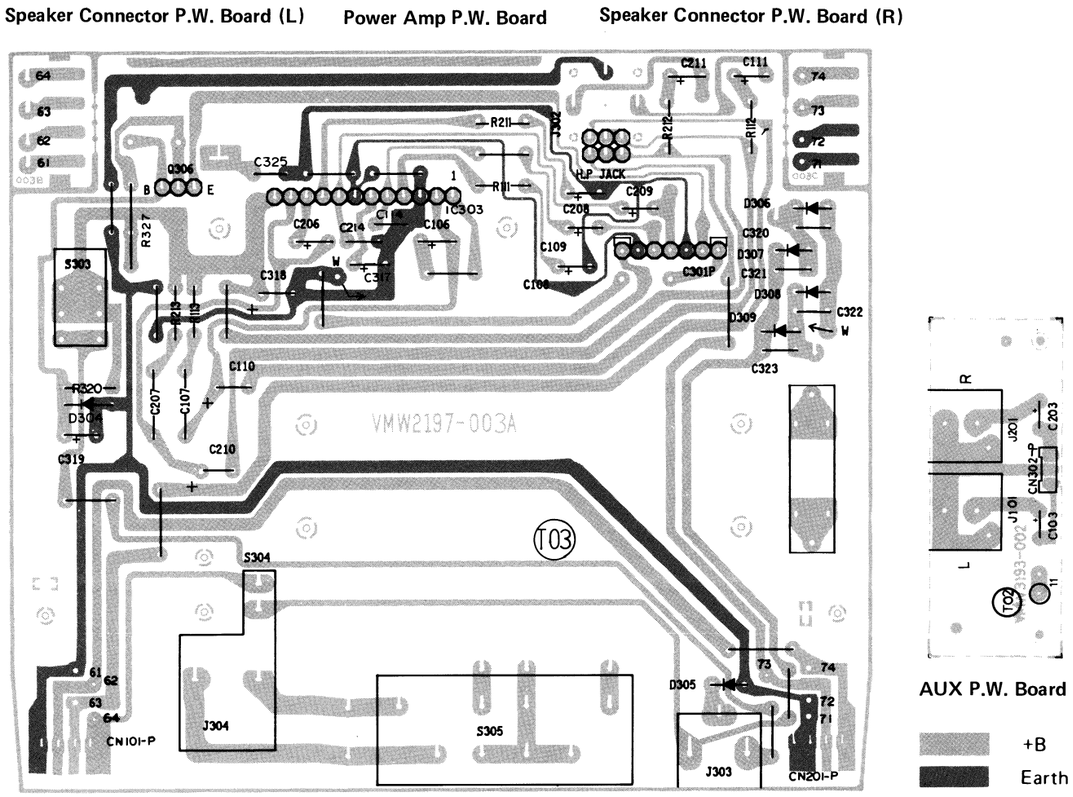


Fig. 19

Power Amplifier P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
⚠	IC303	TA7232P	IC		1
⚠	Q306	2SD1266(P,Q)	Transistor		1
⚠	D304	HZ6A2	Zener Diode		1
⚠	D305	11E1	Si. Diode		1
⚠	D306~309	11E1	〃		4
	J302,S302	QMS3507-001	Jack	Head Phone	1
	J303	QMA1221-004	〃	EXT DC	1
⚠	J304,S304	QMC026-002U	AC Socket Ass'y	PC-100L	1
⚠	〃	〃 -002UBS	〃	〃 LB	1
⚠	S303	QST2101-V04	Push Switch		1
⚠	S305	QSS2325-104	Slide Switch	PC-100L	1
⚠	〃	〃 -104BS	〃	〃 LB	1
⚠	T301	VTP09N2-12D	Power Trans	PC-100L	1
⚠	〃	〃 -12DBS	〃	〃 LB	1
	C106,206	QEH41ER-107	E. Capacitor	100 μF 25 V	2
	C107,207	QCC11EM-154	C. Capacitor	0.15 μF 〃	2
	C108,208	QET41AR-476	E. Capacitor	47 μF 10 V	2
	C109,209	QET41HR-105	〃	1 μ 50 V	2
	C110,210	QET41CR-108	〃	1000 μF 16 V	2
	C111,211	QET41ER-226	〃	22 μF 25 V	2
	C114,214	QCY11HK-102	C. Capacitor	0.001 μF 50 V	2
	C317	QET41ER-106	E. Capacitor	10 μF 25 V	1
⚠	C318	QET41CR-288	〃	2800 μF 16 V	1
	C319	QET41AR-477	〃	470 μF 10 V	1
	C320,321 322,323	QCF11HP-223	C. Capacitor	0.022 μF 50 V	4
	C325	QCC11EM-103	〃	0.01 μF 25 V	1
	C327	QCF11HP-472	〃	0.0047μF 50 V	1
	C328	QCY41HK-471	〃	470 pF 〃	1

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	C329	QCS11HJ-151	C. Capacitor	150pF 50 V	1
	C330	QCC11EM-104	〃	0.1 μF 25 V	1
	C331,332	QCS11HJ-101	〃	100pF 50 V	1
	CN101, 201	VMC0015-004	Connector		2
	CN301	QMV5005-007	〃		1
⚠		QMF51A2-2R0	Fuse	PC-M100L	1
⚠		〃 -2R0BS	〃	〃 LB	1
		A44594-001	Fuse Clip		2
		VND4003-044	Fuse Label		1
		VYH5320-001	Radiation Plate		1
		Q03095-207	Washer		2
		SBSB2606Z	Tap Screw		2
		SBSB3010Z	〃		2
		VYH5425-001	Spacer		2
		VYH5424-00A	〃 Ass'y		1
		QHX2075-001	Wire Clamp		4
	R111,211	QRD161J-221	C. Resistor	220 Ω 1/6 W	2
	R112,212	QRD144J-820S	〃	82 Ω 1/4 W	2
⚠	R113,213	QRH141J-4R7	Fusible Resistor	4.7 Ω 〃	2
	CP1	ICP-N10	Circuit Protector		1
	R116,216	QRD161J-471	C. Resistor	470 Ω 1/6 W	2
	R320	QRD144J-681S	〃	680 Ω 1/4 W	1
	R328	QRD141J-1R0S	〃	1 Ω 〃	1
	R329	QRD121J-1R0	〃	1 Ω 1/2 W	1
	AUX P.W. Board				
	J101	VMC0002-002	Jack		1
	J201	〃 -001	〃		1
	CN302	QMV5005-003	Connector		1
	C113,213	QET41HR-105	E. Capacitor	1 μF 50 V	2

Preamplifier P.W. Board Parts

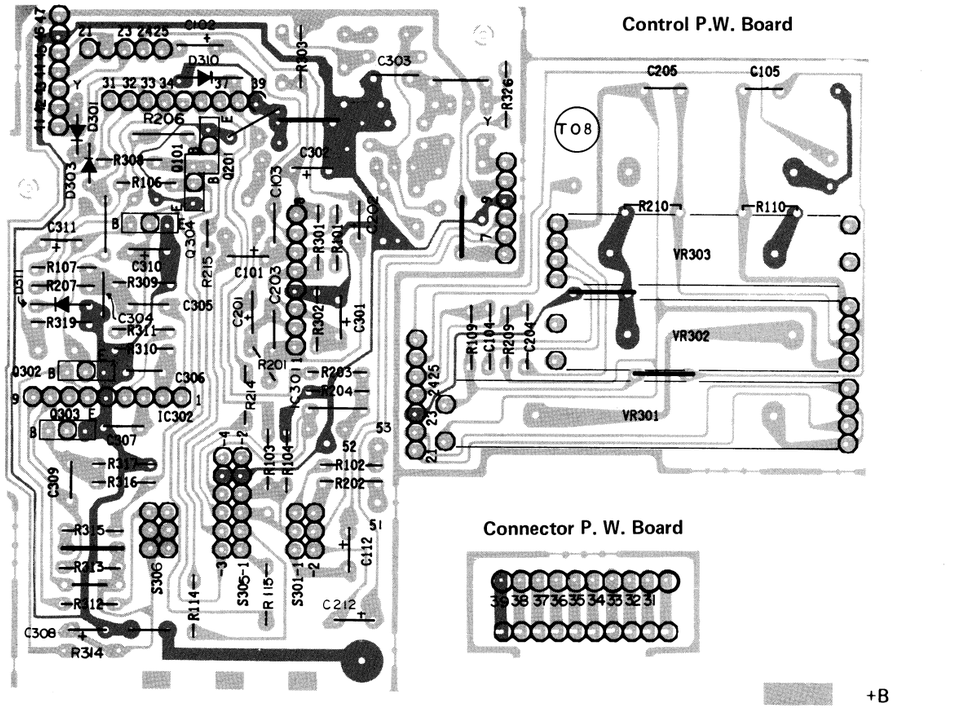


Fig. 20

Preamp P.W Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC301	M5218L	IC		1
	IC302	LA2001	〃		1
	Q101,201 302,304	2SC2785(E,F)	Transistor		4
	Q302	2SD468(C)	〃		1
	D301,303	11E1	Si. Diode		2
	D310,311	MA165	〃		2
	S301-1~2	QST3101-V03	Push Switch	AUX	2
	S305-1~4	〃 -V04	〃	Function	4
	S306-1~2	〃 -V03	〃	MS	2
	——	QRD161J	C. Resistor	—— 1/6 W	25
	R326	QRD141J-150S	〃	15 Ω 1/4 W	1
	C101,201 311,324	QET41HR-475	E. Capacitor	4.7 μF 50 V	4
	C102,202	〃 -105	〃	1 μF 〃	2
	C103,203	QCS11HJ-470	C. Capacitor	47 pF 〃	2
	C112,212	QET41HR-474	E. Capacitor	0.47 μF 〃	2

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	C301,308	QET41HR-106	E. Capacitor	10 μF 50 V	2
	C302	QET41CR-337	〃	330 μF 16 V	1
	C303	QCC11EM-223	C. Capacitor	0.022 μF 25 V	1
	C304	QCF11HK-472	〃	0.0047μF 50 V	1
	C305	QCF11HP-222	〃	0.0022μF 〃	1
	C306	QFV41HJ-154	M. Capacitor	0.15 μF 〃	1
	C307,309	QCF11HP-223	C. Capacitor	0.022 μF 〃	2
	C310	QET41ER-336	E. Capacitor	33 μF 25 V	1
	C326	QCC11EM-103	C. Capacitor	0.01 μF 〃	1
	Control Board Ass'y				
	VR301	QVZ5017-003	V. Resistor		1
	VR302	QVZ5203-003	〃		1
	VR303	〃 -004	〃		1
	R109,209	QRD161J-223	C. Resistor	22 kΩ 1/6 W	2
	R110,210	〃 -182	〃	1.8 kΩ 〃	2
	C104,204	QCY41HK-562	C. Capacitor	0.0056μF 50 V	2
	C105,205	QCC1EM-104	〃	0.1 μF 25 V	2

Enclosure Assembly and Electrical Parts (Receiver Section)

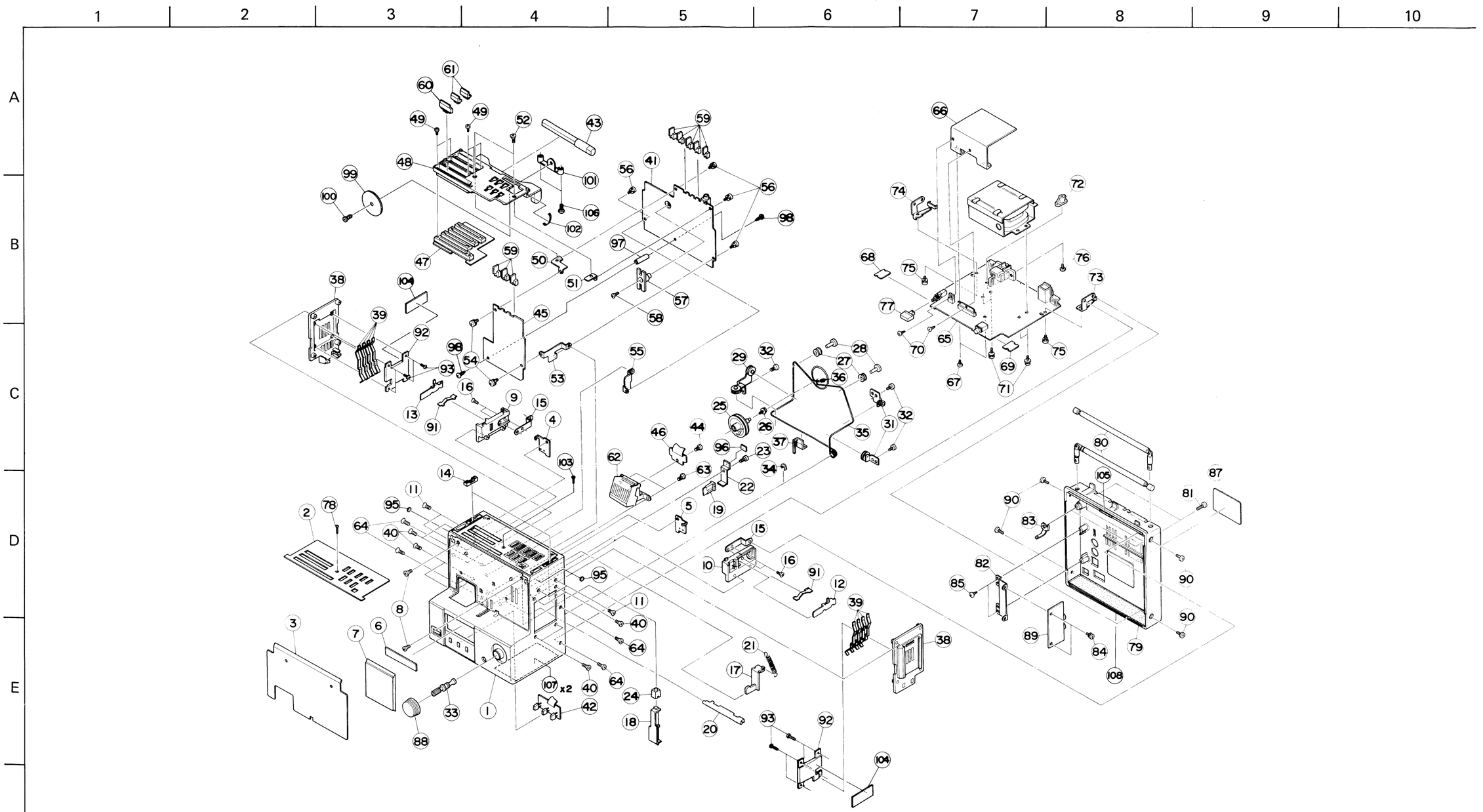


Fig. 21

Enclosure Assembly and Electrical Parts List (Receiver Section)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1 ~ 7	ZCPCMR100Y-FR	Front Cabinet Ass'y	Red	1
		〃 -FS	〃	Silver	1
		〃 -FB	〃	Black	1
	1	VJC1286-005	Front Cabinet	Silver	1
	〃	〃 -008	〃	Red	1
	〃	〃 -018	〃	Black	1
	2	VJD4717-004	Top Plate	Silver	1

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	2	VJD4717-007	Top Plate	Red	1
	〃	〃 -009	〃	Black	1
	3	VJD4700-003	Center Plate	Silver	1
	〃	〃 -005	〃	Red	1
	〃	〃 -011	〃	Black	1
	4	VJD4711-002	Fook (L)		1
	5	VJD4716-002	〃 (R)		1

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	6	VJD4701-002	Dial Back	Silver	1
	〃	〃 -001	〃	Red	1
	〃	〃 -003	〃	Black	1
	7	VJK4198-004	Dial Scale	Silver	1
	〃	〃 -010	〃	Red	1
	〃	〃 -010	〃	Black	1
	8	SSSP3006Z	Screw		2
	9	VYH5246-003	Handle Holder (L)		1
	10	〃 -004	〃 (R)		1
	11	SSSF3010N	Tap Screw	Silver	4
	〃	SSSF3010M	〃	Red/Black	4
	12	VYH5248-001	Slider (R)		1
	13	〃 -002	〃 (L)		1
	14	VXS4107-002	Slide Knob	Silver	2
	〃	〃 -001	〃	Red	2
	〃	〃 -001	〃	Black	2
	15	VYH5318-001	Bracket		2
	16	SSSP2603Z	Screw		4
	17	VYH5241-001	Lock Arm		1
	18	VYH5242-001	Lever		1
	19	VYH5243-003	Slider		1
	20	VYH5244-001	Lever		1
	21	VYH5378-001	Spring		1
	22	VYH5372-002	〃		1
	23	SBSF3010Z	Tap Screw		1
	24	VXP4328-001	Push Knob		1
	25	VYH5245-001	Drum		1
	26	GBSF3010Z	Tap Screw		1
	27	V40409-2	Roller		2
	28	RTA3008	Ribet		2
	29	VYH5253-00A	Roller Bracket Ass'y		1
	30	VYH5255-00A	〃		1
	31	VYH5286-00A	〃		1
	32	SBSF3008Z	Tap Screw		3
	33	VYH4027-008	Tuning Shaft		1
	34	REE4000X	E Ring		1
	35	VHR2ZK9-04AT	Dial Cord		1 set
	36	VKW3002-098	Spring		1
	37	VJN4080-001	Pointer		1
	38	VJD3405-002	Holder	Silver	2
	〃	〃 -001	〃	Red/Black	2
	39	VJD4725-001	Contact		8
	40	SSSF3010N	Tap. Screw	Silver	8
	〃	SSSF3010M	〃	Red/Black	8
	41	——	Tuner P.W. Board Ass'y		1
	42	——	LED P.W. Board Ass'y		1
	43	VQB010A-304	Ferrite Core Antenna		1
	45	——	Preamp P.W.B Ass'y		1
	46	——	Connector P.W.B Ass'y		1
	47	——	Control P.W.B. Ass'y		1
	48	VYH2143-001	Holder		1
	49	SSSP2005Z	Screw		5
	50	VYH5288-002	Bracket (A)		1
	51	〃 -001	〃 (B)		1
	52	SSSP3006Z	Screw		2
	53	VYH5290-001	Bracket (C)		1
	54	LPSP3006Z	Screw	for Preamp P.W.B. Ass'y	2
	55	VYH5291-001	Bracket (D)		1
	56	LPSP3006Z	Screw	Tuner P.W. Board	4
	57	VYH5247-001	Arm		1
	58	SSSP2608Z	Screw		1
	59	VXP4325-001	Push Knob		8
	60	VXS4105-001	Slide Knob		1
	61	VXS4106-001	〃		3
	62	VYH5294-00B	Contact Ass'y		1

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	63	SBSF3010Z	Tap Screw	Contact	2
	64	SSSP3006N	Screw	Silver	2
	〃	SSSP3006M	〃	Red/Black	2
	65	——	Power Amp Ass'y		1
	66	VYH5320-001	Radiation Plate		1
	67	SBSB3010Z	Screw		2
	68	——	Connector P.W.B. Ass'y	Speaker Left	1
	69	——	〃	Speaker Right	1
	70	SBSB2606Z	Tap Screw		2
	71	LPSP3006Z	Screw	for Power Transformer	4
	72	VYH4735-001	Bracket		1
	73	VYH5292-002	Bracket (E)		1
	74	VYH5293-002	〃 (F)		1
	75	LPSP3006Z	Screw		2
	76	SBSF3010Z	〃		1
	77	VXP4325-001	Push Knob		1
	78	SPSK2008N	Screw		1
	79	VJC1287-003	Rear Cabinet	Silver	1
	〃	〃 -006	〃	Red	1
	〃	〃 -008	〃	Black	1
	80	VJA3014-00A	Telescopic Antenna		2
	81	SDSP3010R	Screw		2
	82	VYH5342-001	Bracket		1
	83	VYH5012-002	Terminal Lug		2
	84	LPSP3006Z	Screw		2
	85	SBSF3010Z	Tap Screw		2
	87	VYN5088-004	Name Plate	PC-M100LB	1
	〃	〃 -010	〃	PC-M100L	1
	88	VXL4185-001	Tuning Knob		1
	89	——	Aux P.W. Board		1
	90	SDSP3004R	Screw		4
	91	VYH5365-001	Handle Spring		2
	92	VYH5377-001	Spacer		2
	93	SBSF2605Z	Tap Screw		8
	95	VYSF202-008	Spacer	for Silver	2
	〃	〃 -009	〃	for Red/Black	2
	96	VYSS1R1-005	〃		1
	97	VYH5401-001	Joint Bar		1
	98	SBSF3008Z	Screw		2
	99	VXL4144-002	Knob	Fine	1
	100	SSSP2004Z	Screw		1
	101	VYH5355-001	Holder		1
	102	VYSA1R4-056	Spacer		1
	103	SPSK2080N	Mini Screw		1
	104	VYSS1R8-003	Spacer		2
	105	VYSA1R6-034	〃		1
	106	SBSF3010Z	Screw	for Fine	2
	107	VYH5399-001	Spacer		2
	108	VYH5400-001	〃		1

Disassembling the Deck Section

A. Removal of top cover (Fig. 22)

1. Open the cassette holder, remove 4 screws (1) SPSH1740N, then remove the top cover.

Note: When remounting it, insert its hand strap attaching metal side first.

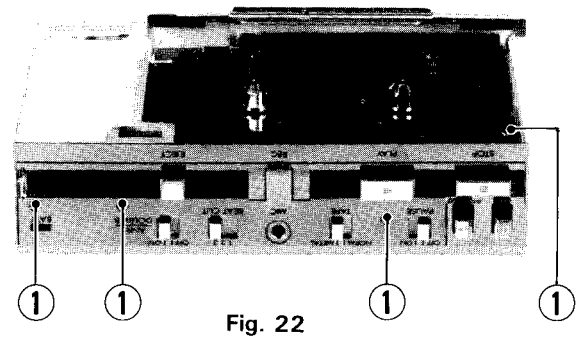


Fig. 22

B. Removal of rear cover ass'y (Figs 23 and 24)

1. Remove the top cover.
2. Remove screw (2) SPSH1720N and 5 screws (3) SPSH1735N from the right and left sides.
3. Remove 2 screws (4) SPSH1735N at the battery cover side and remove the rear cover ass'y from the electret condenser microphone side while pressing in the lever ass'y.

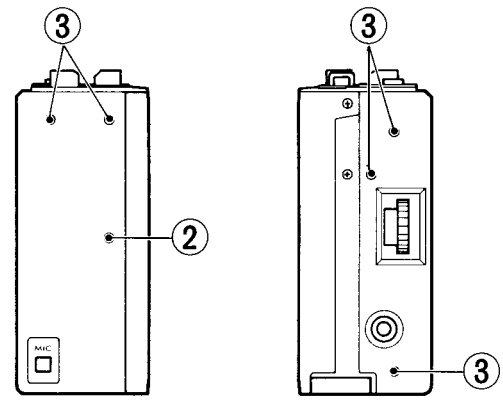


Fig. 23

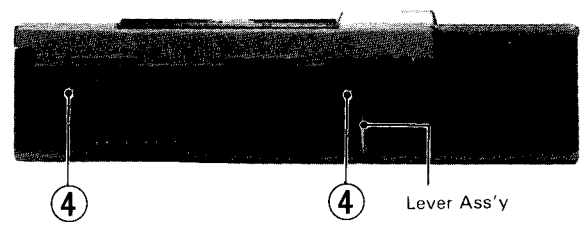


Fig. 24

C. Removal of main board ass'y (Fig. 25)

1. Remove the rear cover.
2. Remove 4 screws (5) SPSK1730N and screw (6) F00410-25N, then set up the main board ass'y.

Note: when remounting it, install so that the REC/PB select switch S701 and the REC lever operate in response to each other.

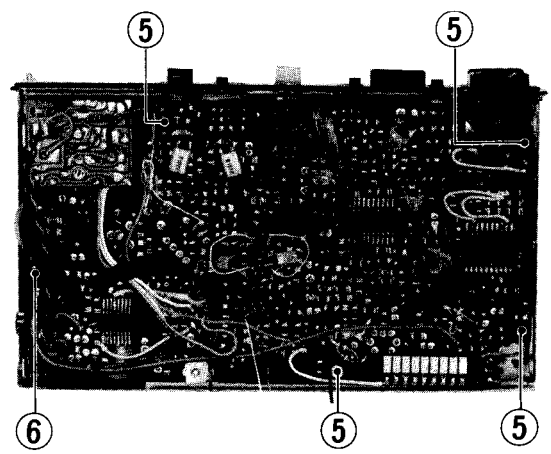


Fig. 25

D. Removal of cassette lid ass'y (Fig. 26)

1. Remove the rear cover.
2. Remove 2 screws (7) SSSK1720M.
3. Remove the cassette lid ass'y, being careful not to lose the door springs.

Note: When remounting it, set the longer side of the spring to the cassette lid side.

E. Removal of cassette mechanism parts

The procedure of removal is the same as in RC-S55. Refer to Service Manual No. 1490 on page 6.

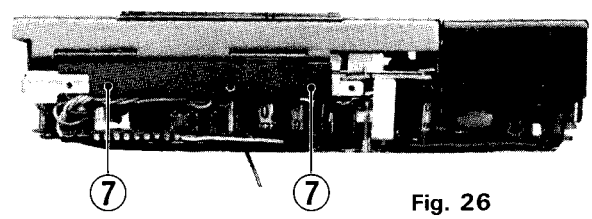


Fig. 26

Block Diagram

Recording System

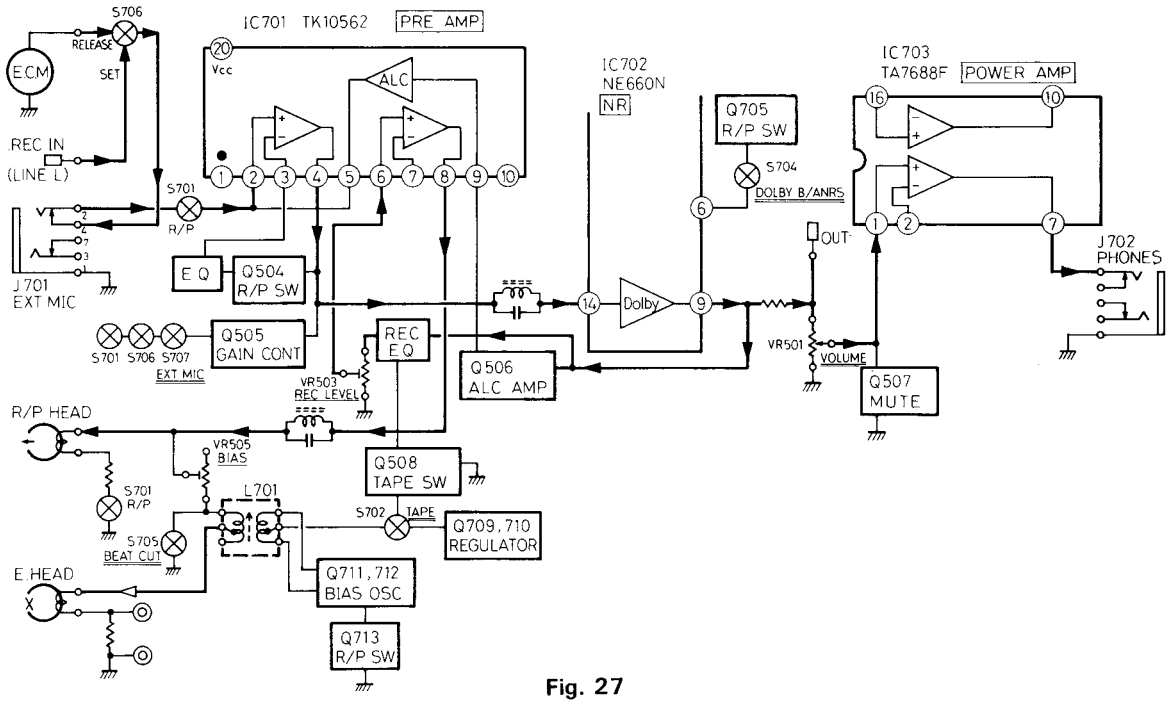


Fig. 27

Playback System

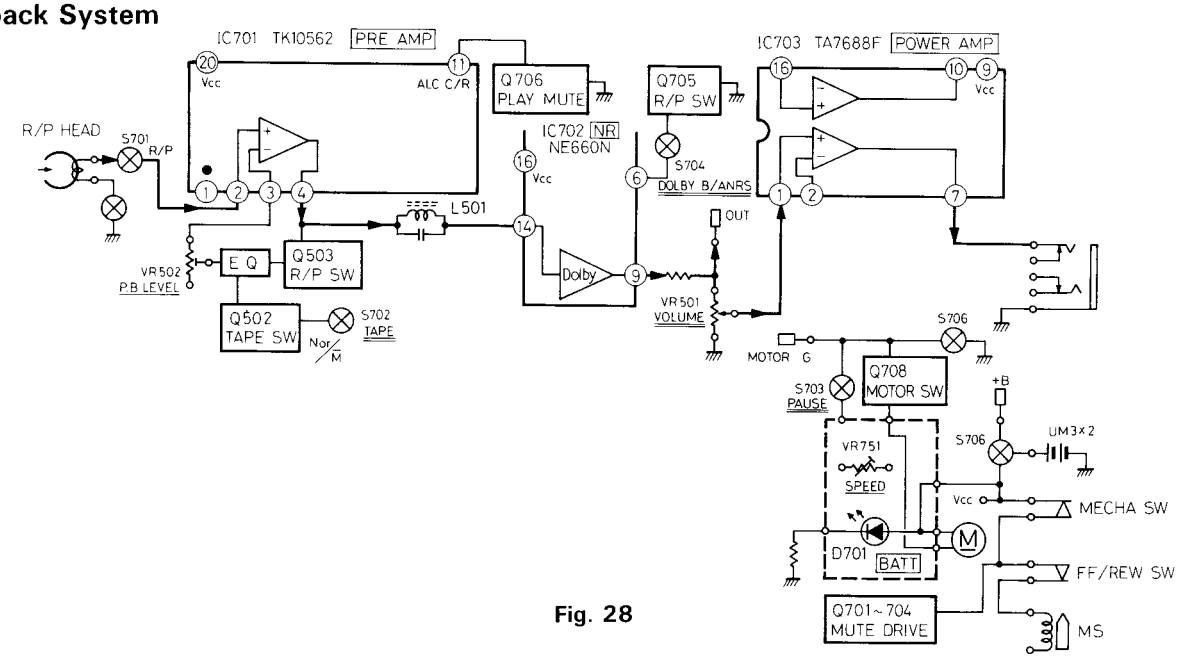
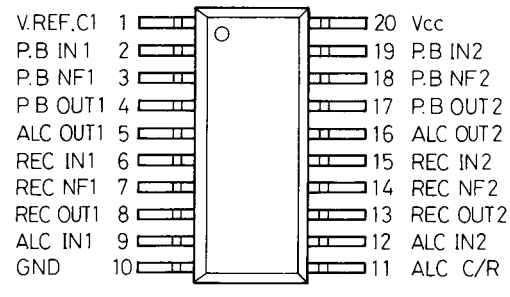


Fig. 28

IC701 TK10562



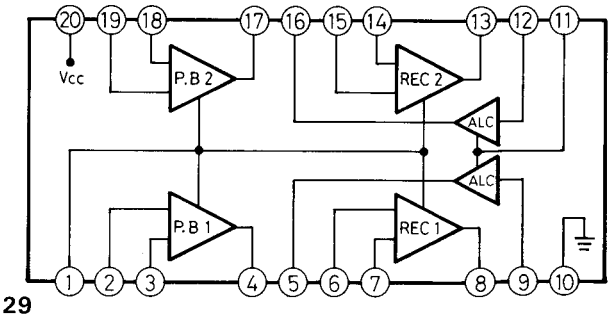
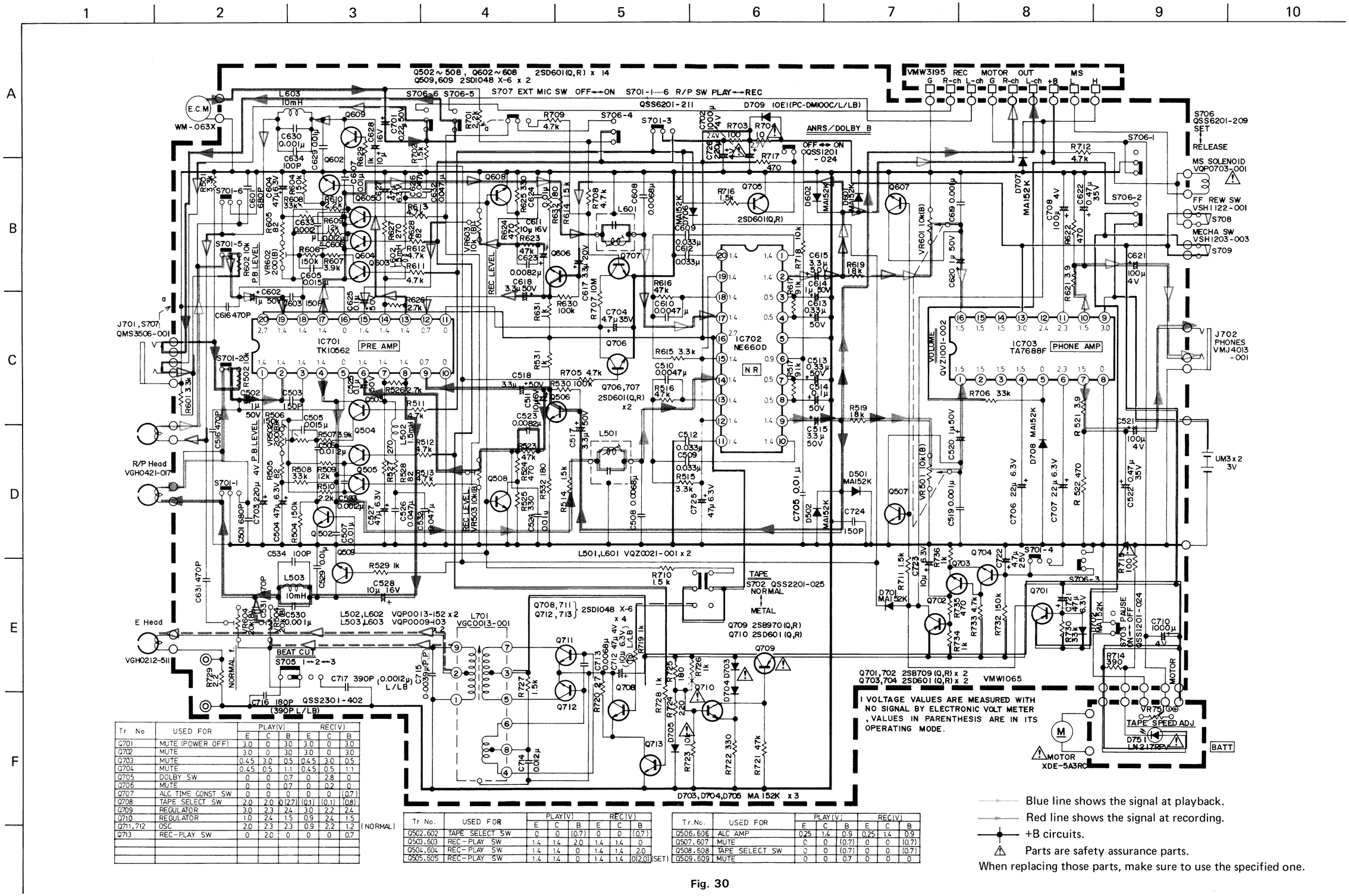


Fig. 29

Standard Schematic Diagram of PC-M100 (Cassette Deck)



Tr No	USED FOR	PLAY(V) E	PLAY(V) C	PLAY(V) B	REC(V) E	REC(V) C	REC(V) B
Q701	MUTE (POWER OFF)	3.0	0	3.0	3.0	0	3.0
Q702	MUTE	3.0	0	3.0	3.0	0	3.0
Q703	MUTE	0.45	3.0	0.5	0.45	3.0	0.5
Q704	MUTE	0.45	0.5	1.1	0.45	0.5	1.1
Q705	DOLBY SW	0	0	0.7	0	2.8	0
Q706	MUTE	0	0	0.7	0	0.2	0
Q707	ALC TIME CONST SW	0	0	0	0	0	(0.7)
Q708	TAPE SELECT SW	2.0	2.0	0(2.7)	(0.1)	(0.1)	(0.8)
Q709	REGULATOR	3.0	2.3	2.4	3.0	2.2	2.4
Q710	REGULATOR	1.0	2.4	1.5	0.9	2.4	1.5
Q711,712	OSC	2.0	2.3	2.3	0.9	2.2	1.2 (NORMAL)
Q713	REC-PLAY SW	0	2.0	0	0	0	0.7

Tr No.	USED FOR	PLAY(V) E	PLAY(V) C	PLAY(V) B	REC(V) E	REC(V) C	REC(V) B
Q502,602	TAPE SELECT SW	0	0	(0.7)	0	0	(0.7)
Q503,603	REC-PLAY SW	1.4	1.4	2.0	1.4	1.4	0
Q504,604	REC-PLAY SW	1.4	1.4	0	1.4	1.4	2.0
Q505,605	REC-PLAY SW	1.4	1.4	0	1.4	1.4	0(2.0) (SET)

Tr.No.	USED FOR	PLAY(V) E	PLAY(V) C	PLAY(V) B	REC(V) E	REC(V) C	REC(V) B
Q506,606	ALC AMP	0.25	1.4	0.9	0.25	1.4	0.9
Q507,607	MUTE	0	0	(0.7)	0	0	(0.7)
Q508,608	TAPE SELECT SW	0	0	(0.7)	0	0	(0.7)
Q509,609	MUTE	0	0	0.7	0	0	0

Blue line shows the signal at playback.
Red line shows the signal at recording.
+B circuits.
⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Fig. 30

Cassette Amplifier Adjustment

Location of Adjustment Point

Parts side

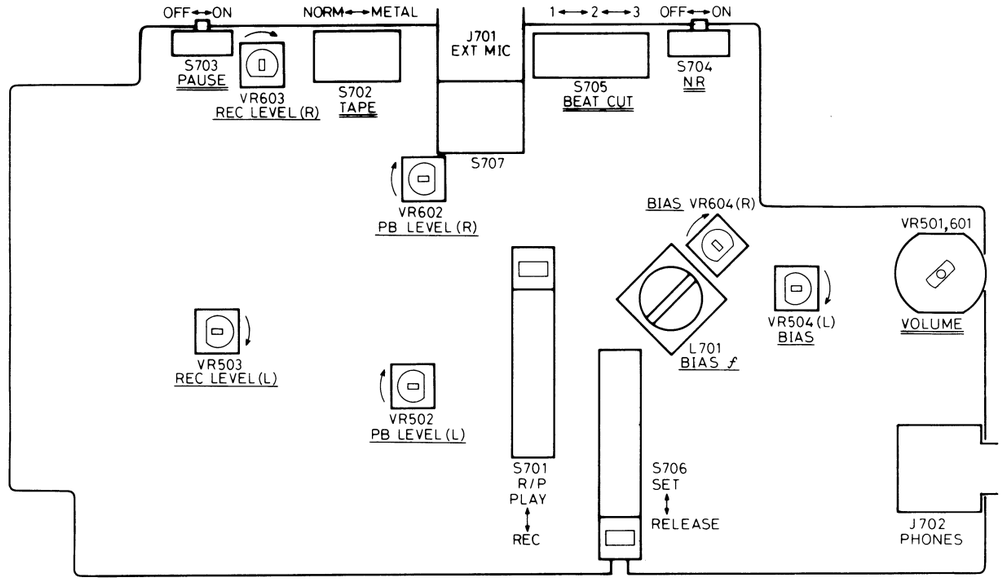


Fig. 31

Pattern side

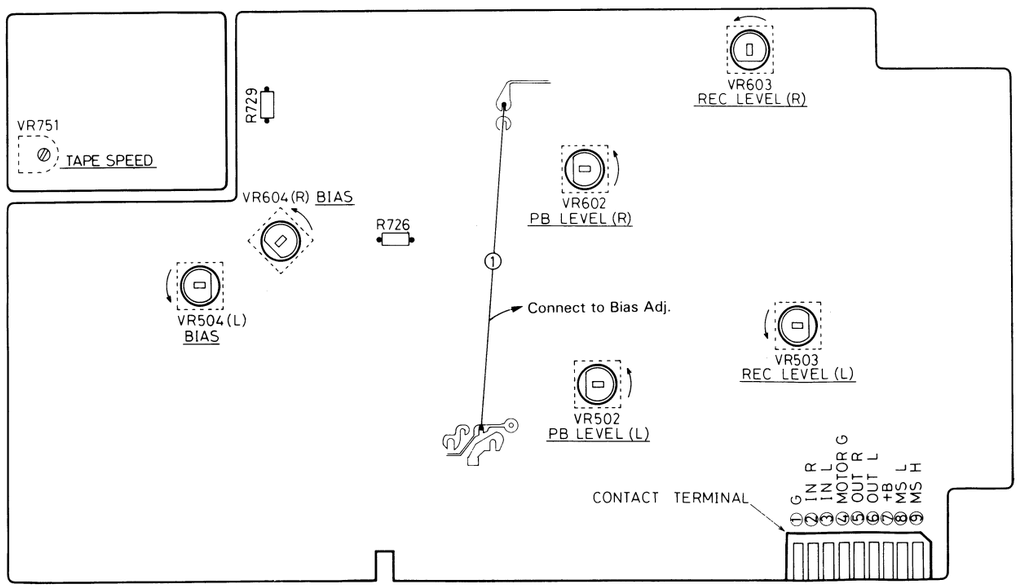


Fig. 32

Conditions

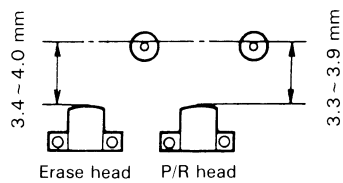
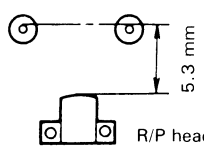
Power supply : DC 3 V
Input : Connector pins 2 and 3
Output : Connector pins 5 and 6
BEAT CUT : "1"
DOLBY NR : "OFF"

Specified input level : AUX −45 dBs
MIC −60 dBs
When using AUX, connect a shorting wire between the microphone switch and S706 from the rear of the board.

Item	Tape to be used	Adjustment and check	Adjustment point
1. Azimuth	Test tape VTT-658 (10 kHz)	With maximum output, minimize the L/R phase difference.	REC/PB head azimuth adjustment screw
2. Tape speed adjustment and wow/flutter check	Test tape VTT-656 (3 kHz)	Adjust the output frequency to 3,010 ± 15 Hz. Wow and flutter should be less than 0.28% (JIS WRMS).	VR751 (Motor governor P.W. Board).
3. PB level adjustment	Test tape VTT-664 (1 kHz)	Adjust it to −23 dBs between connector pins 5 and 6 .	VR502, VR602
4. Bias frequency adjustment TAPE: METAL	—	Connect a frequency counter across R729 (2.2 Ω) and adjust it to 48 kHz. In this case, erase current should be 50-60 mA (110−143 mV/2.2 Ω).	L701
5. REC/PB frequency response adjustment	TS-5 (for normal)	With TAPE switch at NORM, record 1 kHz and 10 kHz at −65 dBs (reference level −20 dBs) alternately and play it back. In this case, the deviation in output level of 10 kHz from 1 kHz should be 0 dB +1, −0 dB.	VR504, VR604
(REC/PB sensitivity adjustment)	"	Record 1 kHz at −55 dBs and play it back. In this case, the level difference between REC and PB should be 0 ± 0.5 dB.	VR503, VR603
(Metal tape frequency response check)	TS-7 (for metal)	With TAPE switch at METAL... REC/PB frequency response of −65 dBs input: 10 kHz/1 kHz = 0 ± 2 dB REC/PB level difference of −55 dBs input: 1 kHz = 0 ± 1 dB	—
6. Dolby ON REC/PB frequency response check	—	250 Hz to 6.3 kHz: within −5 dB At 12.5 kHz: within −7 dB (−65 dBs input)	—
7. Microphone sensitivity check	—	Apply 1 kHz −60 dBs to MIC. In this case, the output should be −23 dBs ± 2 dB between connector pins 5 and 6 .	—

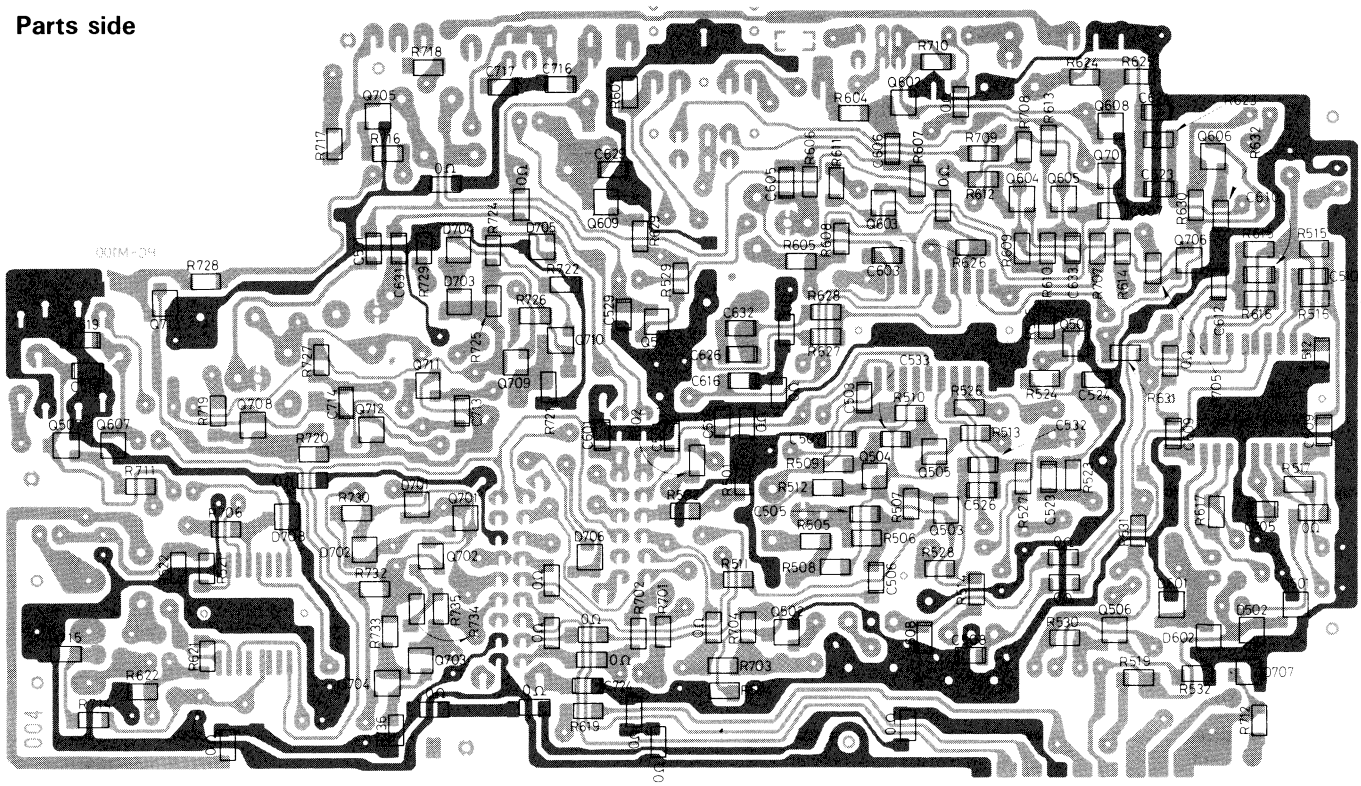
Cassette Mechanism Section

When replacing a mechanical part, check the items below.

Item	Standards	Testing method	Tape to be used
1. Supply voltage	Rated voltage: DC 3 V Motor operating voltage range: DC 2.2 – 4 V	Constant voltage power supply	—
2. Tape speed	4.8 cm/s (3,000 Hz) +3% –2% Variation width 2%	Frequency counter (digital counter)	VTT-656
3. Wow & flutter	Less than 0.28% (WRMS)	Wow meter	VTT-656
4. Take-up torque	PLAY 28–70 g.cm FF 50–100 g.cm REW 50–100 g.cm	In PLAY mode, when the reel is locked, no slippage should occur between the idler, reel and take-up pulley. Torque gauge CTG-N (made by Tohnichi or its equivalent)	—
5. Current consumption (of motor only)	PLAY less than 160 mA FF at end of tape, less than 250 mA REW when reel is locked, less than 530 mA	DC current meter	C-60 Use a tape with normal take-up torque.
6. Pinch roller pressure	200–280 g	When pinch roller stops with tension gauge pulled horizontally.	
7. Thrust of flywheel not constant	0.05–0.2 mm	Clearance gauge	
8. Head position at PLAY or REC	 In PLAY (REC) mode, each head should be positioned within the ranges shown above. The top of each should not touch the cassette.		All types of cassette tapes
9. Head position in music scan		(In cue or review, 5.3 mm)	
10. Auto-stop operation	At a reduced voltage of 4 V, the unit should auto-stop within 10 sec. after winding is finished in PLAY, FF and REW modes.		Any type of cassette tape
11. FF and REW times	FF less than 105 sec REW less than 105 sec		C-60

Location of P.W. Board Parts and Parts List (Cassette)

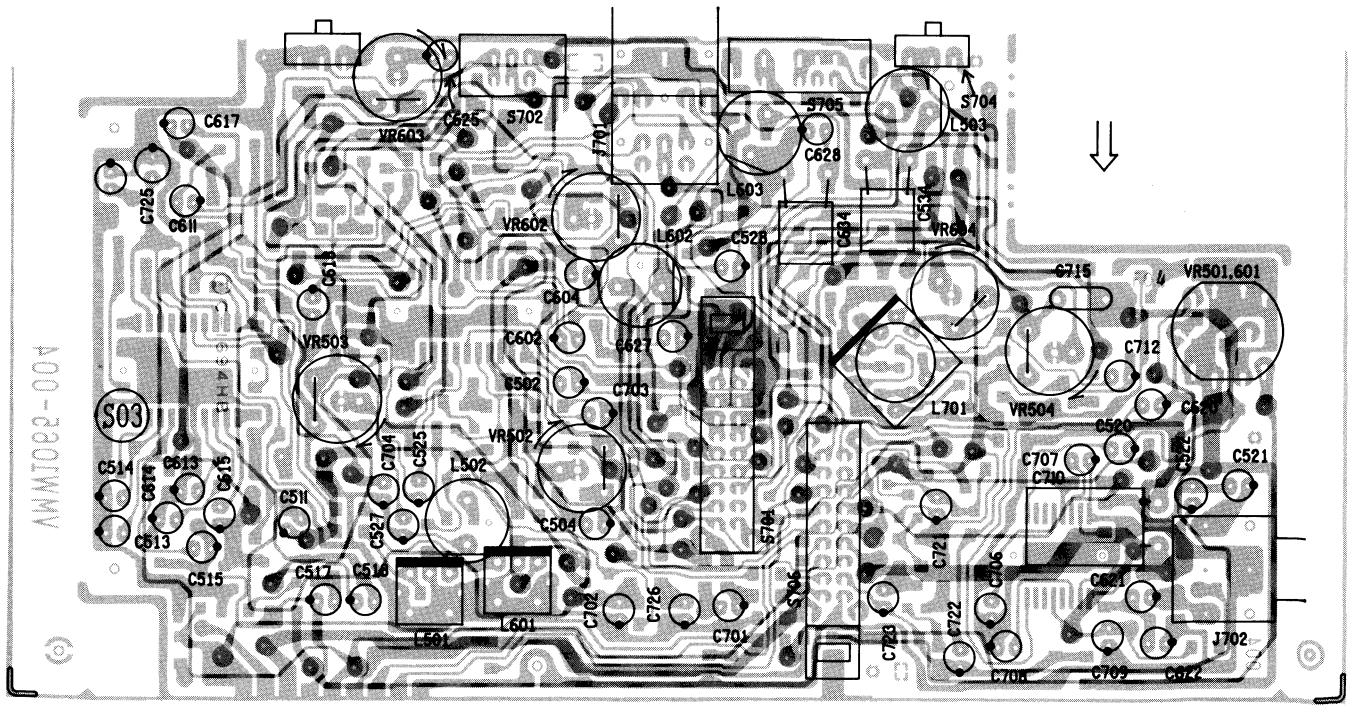
Parts side



+B
Earth
Chip parts

Fig. 33

Pattern side



Printed pattern

Fig. 34

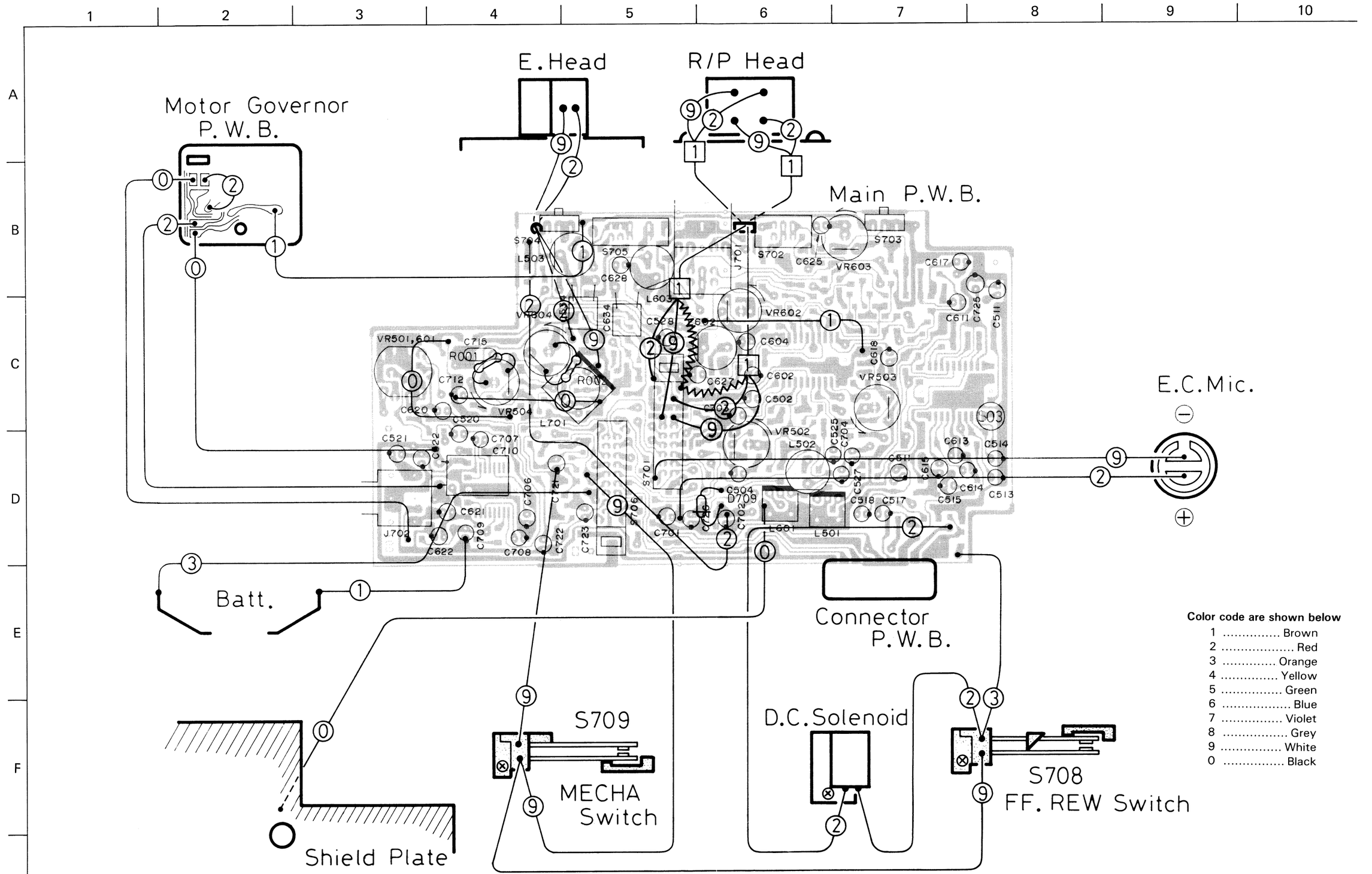
Cassette Amplifier Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC701	TK10562	IC		1
	IC702	NE660D (B1)	〃		1
	IC703	TA7688F	〃		1
	Q502~508 602~608 703~707,710	2SD601 (Q,R)	Transistor		20
	Q509,609,708 711,712,713	2SD1048X	〃		6
	Q701,702	2SB709 (Q,R)	〃		2
	Q709	2SD970 (Q,R)	〃		1
	D501,601,502 602,701~708	MA152KX	Si. Diode		12
	D709	10E1	〃		1
	J701	QMS3506-001	Mic Jack		1
	J702	VMJ4013-001	H.P. Jack		1
	S701	QSS6201-211	Slide Switch	R/P	1
	S702	QSS2201-025	〃	Met/Nor	1
	S703	QSS1201-024	〃	PAUSE	1
	S704	〃 -024	〃	NR	1
	S705	QSS2301-402	〃	Beat Cut	1
	VR501,601	QVZ1001-002	V. Resistor		1
	VR502,602	QVZ3515-022	〃		1
	VR503,603	QVZ3515-014	〃		2
	VR504,604	QVZ3515-024	〃		2
	L501,601	VQZ0021-001	Trap Coil		2
	L502,602	VQP0013-152	Inductor		2
	L503,603	VQP0009-103	〃		2
	L701	VGC0013-001	OSC Coil		1
	R501,601,516 616	QRS188J-332	M.G. Resistor	3.3 kΩ 1/8 W	4
	R502,602,718 723	〃 -103	〃	10 kΩ 〃	4
	R504,604,506 606,732	〃 -154	〃	150 kΩ 〃	5
	R505,605	〃 -820	〃	82 Ω 〃	2
	R507,607	〃 -392	〃	3.9 kΩ 〃	2
	R508,608,730	〃 -333		33 kΩ 〃	3
	R509,609	〃 -123	〃	12 kΩ 〃	2
	R510,610,701	〃 -222	〃	2.2 kΩ 〃	3
	R511,611,512 612,513,613 705,708,709 712,733	〃 -472	〃	4.7 kΩ 〃	11
	R514,614,702 710,711,716	〃 -152	〃	1.5 kΩ 〃	6
	R516,616,523 623,721	QRD188J-473	〃	47 kΩ 1/8 W	5
	R517,617	〃 -913	〃	91 kΩ 〃	2
	R519,619	〃 -183	〃	18 kΩ 〃	2
	R521,621	〃 -3R9	〃	3.9 Ω 〃	2
	R522,622,524 624,717,735	〃 -471	〃	470 Ω 〃	4
	R525,625,722	〃 -331	〃	330 Ω 〃	2
	R526,626	〃 -272	〃	2.7 kΩ 〃	2
	R527,627	〃 -271	〃	270 Ω 〃	2
	R528,628	〃 -820	〃	82 Ω 〃	2
	R529,629,531 631,719,726 728,734,736	〃 -102	〃	1 kΩ 1/8 W	9
	R530,630	〃 -104	〃	100 kΩ 〃	2
	R532,632	〃 -181	〃	180 Ω 〃	2
	R703,715	〃 -101	〃	100 Ω 〃	2

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
⚠	R704	QRD188J-100	M.G. Resistor	10 Ω 1/8 W	1
	R706	〃 -333	〃	33 kΩ 〃	1
	R707	〃 -106	〃	10 MΩ 〃	1
	R714	〃 -391	〃	390 Ω 〃	1
	R720	〃 -270	〃	27 Ω 〃	1
	R724	〃 -221	〃	220 Ω 〃	1
	R725	〃 -181	〃	180 Ω 〃	1
	R727	〃 -152	〃	1.5 kΩ 〃	1
	R729	〃 -2R2	〃	2.2 Ω 〃	1
		〃 -0R0		0 Ω 〃	21
	C501,601	QCS41HK-681	C. Capacitor	680 pF 50 V	2
	C502,602,514 614,520,620	QEK41HK-105	E. Capacitor	1 μF 〃	6
	C503,603	QCS41HK-151	C. Capacitor	150 pF 〃	2
	C504,627	QEK40JM-476	E. Capacitor	47 μF 6.3 V	2
	C505,605	QCY41HK-153	C. Capacitor	0.015 μF 50 V	2
	C506,606	〃 -123	〃	0.012 μF 〃	1
	C507,607	〃 -103	〃	0.01 μF 〃	2
	C508,608	〃 -682	〃	0.068 μF 〃	2
	C509,609	QCY41EK-333	〃	0.033 μF 25 V	2
	C510,610	QCY41HK-472	〃	0.0047 μF 50 V	2
	C511	QEK41CM-106	E. Capacitor	10 μF 16 V	1
	C512	QCY41EK-333	C. Capacitor	0.033 μF 25 V	1
	C513,613	QEK41HM-334	E. Capacitor	0.33 μF 50 V	2
	C515,615,517 617,518,618	QER41HM-335	〃	3.3 μF 〃	6
	C516,616,531 631	QCS41HK-471	C. Capacitor	470 pF 〃	4
	C519,619	QCY41HM-105	E. Capacitor	1 μF 〃	2
	C521,621	QEK40GM-107	〃	100 μF 4 V	2
	C522,622	QEE41VM-474	T.E. Capacitor	0.47 μF 35 V	2
	C523,623	QCY41HK-822	C. Capacitor	0.0082 μF 50 V	2
	C524,624	〃 -103	〃	0.01 μF 〃	2
	C525,625	QEK41HM-104	E. Capacitor	0.1 μF 〃	2
	C526,626	QCY41EK-473	C. Capacitor	0.047 μF 25 V	2
	C527	QER40JM-476	E. Capacitor	47 μF 6.3 V	1
	C528,628	QEK41CM-106	〃	10 μF 16 V	2
	C529,629	QCY41HK-103	C. Capacitor	0.01 μF 50 V	2
	C530,630	QFN41HJ-102	M. Capacitor	0.001 μF 〃	2
	C532,632	QCY41EK-473	C. Capacitor	0.047 μF 25 V	2
	C533,633	QCS41HK-122	〃	0.0012 μF 50 V	2
	C534,634	QCS41HK-101	〃	100 pF 〃	2
	C611	QER41CM-106	E. Capacitor	10 μF 16 V	1
	C701	QEK41HM-224	〃	0.22 μF 50 V	1
	C702	QETA0GM-108	〃	1000 μF 4 V	1
	C703	QER40GM-227	〃	220 μF 〃	1
	C704	QER41VM-475	〃	4.7 μF 35 V	1
	C705	QCY41HK-103	C. Capacitor	0.01 μF 50 V	1
	C706,707	QEK40JM-226	E. Capacitor	22 μF 6.3 V	2
	C708	QEK40GM-107	〃	100 μF 4 V	1
	C710	QET40GR-108	〃	1000 μF 〃	1
	C712	QEE40JM-106	T.S.E. Capacitor	10 μF 6.3 V	1
	C713	QCY41HK-682	C. Capacitor	0.0068 μF 50 V	1
	C714	〃 -123	〃	0.012 μF 〃	1
	C715	QFP42AJ-392	P.P. Capacitor	0.0039 μF 100 V	1
	C716	QCS41HK-391	C. Capacitor	390 pF 50 V	1
	C717	QCY41HK-122	〃	0.0012 μF 〃	1
	C721	QEK40JM-476	E. Capacitor	47 μF 6.3 V	1
	C722	QEK41EM-475	〃	4.7 μF 25 V	1
	C723	QEK41CM-106	〃	10 μF 16 V	1
	C724	QSS41HK-151	C. Capacitor	150 pF 50 V	1
	C725	QER40JM-476	E. Capacitor	47 μF 6.3 V	1
	C726	QEK40GM-227	〃	220 μF 4 V	1

Wiring Connection (Cassette Deck)



Color code are shown below

1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Grey
9	White
0	Black

Fig. 35

Enclosure Assembly Parts (Cassette Deck)

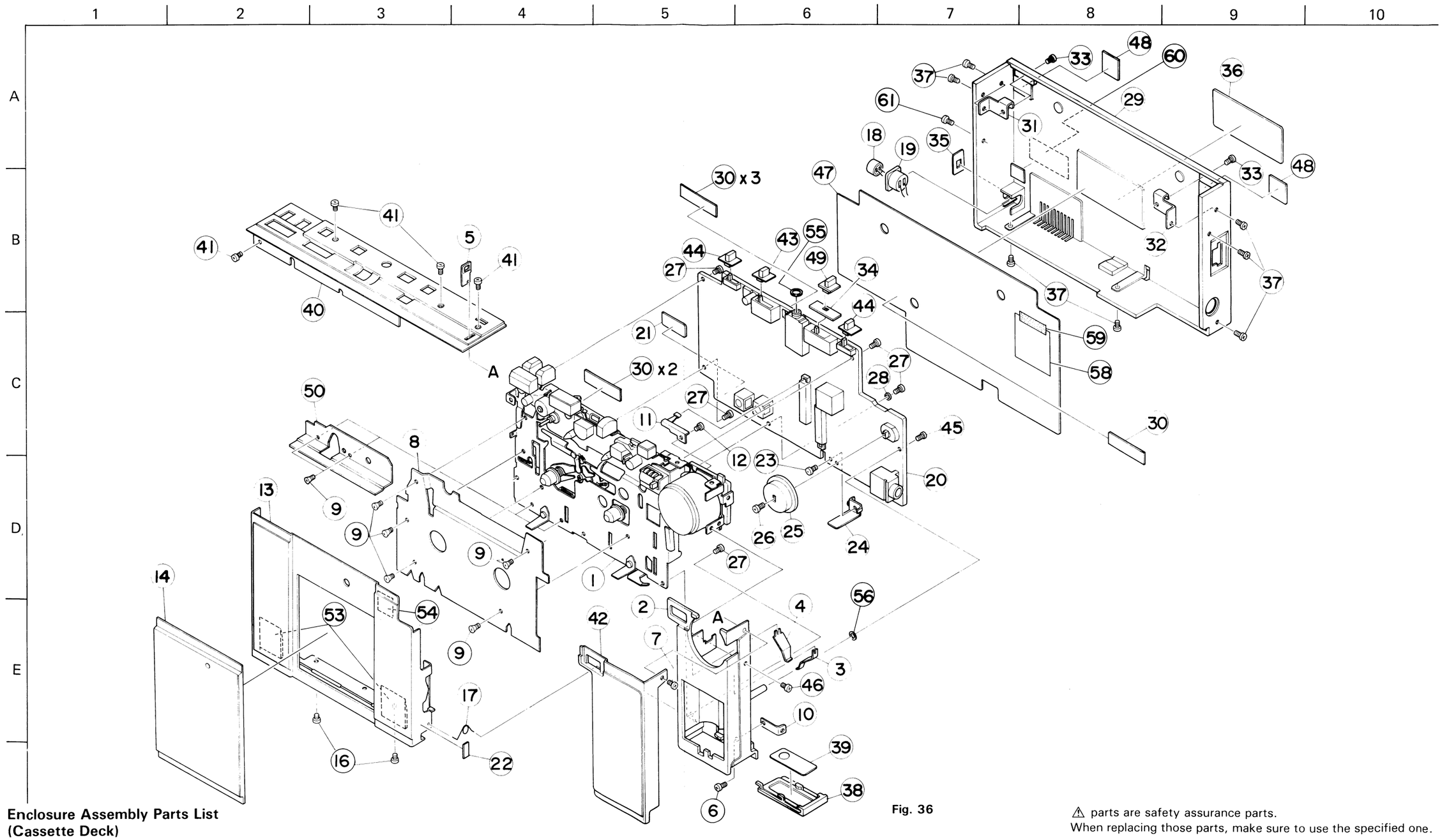


Fig. 36

Enclosure Assembly Parts List (Cassette Deck)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	–	Cassette Mechanism Ass'y		1
	2	VJC1296-002	Battery Holder	Silver	1
	〃	〃 -001	〃	Red	1
	〃	〃 -003	〃	Black	1
	3	VYH5018-002	Battery Spring		1
	4	VYH5019-002	〃		1
	5	VYH5331-001	Plate		1
	6	SPSH1730N	Mini Screw		1
	7	SPSH1735N	Mini Screw		1
	8	VJD3351-004	Inner Lay	Silver	1
	〃	〃 -005	〃	Red	1
	〃	〃 -006	〃	Black	1
	9	SSSK1720M	Mini Screw	Inner lay × 5, C. Holder × 2	7
	10	VYH5333-001	Bracket		1
	11	VKY4299-001	Rec Spring		1

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	12	SPSK1716M	Mini Screw		1
	13,14	ZCPCMD100Y-CS	Cabinet Ass'y		1
		〃 -CR	〃		1
		〃 -CB	〃		1
	13	VJT4081-00C	Cassette Lid Ass'y	Silver	1
	〃	〃 -00E	〃	Red	1
	〃	〃 -00D	〃	Black	1
	14	VJT3114-003	Window	Red/Black	1
	〃	〃 -004	〃	Silver	1
	16	SSSK1720M	Mini Screw		1
	17	VYH5023-002	Door Spring		1
	18	WM-063X	E.C. MIC		1
	19	VYH5024-001	MIC Bushing		1
	20	—	Main P.W. Board Ass'y		1
	22	VYSS1R5-006	Spacer		1
	23	SPSH2030N	Screw		1
	24	VYH5335-00C	Lever Ass'y		1
	25	VXL4170-001	Volume Knob		1
	26	SPSK1730N	Mini Screw		1
	27	〃	〃		4
	28	WLS1700N	Washer		1
	29	VJC2118-001	Rear Cover	Red	1
	〃	〃 -002	〃	Silver	1
	〃	〃 -006	〃	Black	1
	30	F00303-34	Spacer		4
	31	VYH5261-001	Holder	(L)	1
	32	VYH5263-001	〃	(R)	1
	33	SPSH1730N	Mini Screw		2
	34	VYH5262-001	Shield		1
	35	VJD4614-001	MIC Plate		1
	36	VYNA416-004	Name Plate	PC-M100LB	1
	〃	〃 -005	〃	PC-M100L	1
	37	SPSH1735N	Mini Screw		7
	38	VJC4014-001	Battery Cover	Red	1
	〃	〃 -002	〃	Silver	1
	39	VYH5026-002	Battery Contact		1
	40	VJD2206-001	Tap Cover		1
	41	SPSH1740N	Mini Screw		4
	42	VJD4710-002	Mark Plate	Silver	1
	〃	〃 -005	〃	Red	1
	〃	〃 -006	〃	Black	1
	43	VXS4080-001	Knob		1
	44	VXS4108-001	〃		2
	45	F00410-25N	Tap Screw		1
	47	VYH5380-001	Shield		1
	48	VJD4736-001	Plate	Red	2
	〃	〃 -002	〃	Silver	2
	〃	〃 -003	〃	Black	2
	49	VXS4081-001	Knob		1
	50	VJD4733-001	Cassette Holder		1
	51	SPSH1720N	Mini Screw	Rear Cover	1
	53	VYH5391-001	Spacer		2
	54	VYSA101-010	〃		1
	55	VJD4598-001	Jack Holder		1
	56	Q03093-522	Washer		1
	58	VYH5423-00A	Shield Ass'y		1
	59	VYSA1R4-059	Spacer		1
	60	VND4027-003	Dolby Label		1
	61	SPSH1720N	Mini Screw		1

Mechanical Component Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VKL2193-00C	Chassis Base Ass'y		1
	2	VKW3002-103	Tension Spring	Stop. Eject	2
	3	VKW3006-052	Torsion Spring	Play	1
	4	VKW3002-147	Tension Spring	Rec.	1
	5	REE1200	E Ring		1
	6	VKS4470-00A	F.F Bar Ass'y		1
	7	REE1500	E Ring		1
	8	VKS4471-00D	Rew Bar Ass'y		1
	9	REE2000	E Ring		1
	10	VKL5239-001	SW Lever		1
	11	REE1500	E Ring		1
	12	VSH1203-003	Leaf Switch	Motor Switch	1
	13	SPSK1725M	Mini Screw	Leaf Switch × 1	4
	14	VKS4472-002	Lock Adaptor	Moter Bracket × 3	1
	15	SPSK1416M	Mini Screw		1
	16	VKL5240-00E	Lock Cam Bracket Ass'y		1
	17	SPSK1716M	Mini Screw		2
	18	VKP4124-00A	Pinch Roller Arm Ass'y		1
	19	VKW3006-047	Torsion Spring	P. Roller	1
	20	REE2000	E Ring		1
	21	VKW3006-048	Torsion Spring		1
	22	VGH0421-017	R/P Head Ass'y		1
	23	VKW4369-002	Azimuth Spring		1
	24	SPSX2006N	Screw	Azimuth	1
	25	VKS4474-002	Tape Guide Arm		1
	26	VKW3002-102	Tension Spring	T. Guide	1
	27	REE2000	E Ring		1
	28	VKZ4001-012	Wire Clamp		2
	29	VKL5243-00B	Motor Bracket Ass'y		1
	30	SPSK1720M	Mini Screw	Counter Bracket	2
⚠	31	XDE-5A3RE	Motor		1
	32	VKZ4015-003	Rubber Bushing	Motor	3
	33	VKH4375-001	Motor Bushing	〃	3
	34	SPSK1735M	Mini Screw	〃	3
	35	VKB3000-055	Belt	Capstan	1
	36	VKR4308-002	Sub. Gear		1
	37	VKZ4004-004	Special Washer		1
	38	VKR4287-00A	Sub. Wheel Ass'y		1
	39	Q03093-835	Washer		1
	40	REE1200	E Ring		1
	41	VKF3121-00F	Flywheel Capstan Ass'y		1
	42	Q03093-830	Washer		1
	43	REE1600	E Ring		1
	44	VKY4263-003	Head Base Spring		1
	45	SPSK1716M	Mini Screw		1
	46	VKS4502-001	Cue Review Lever		1
	47	VKH3013-015	Flange Collar		1
	48	SSSK1735M	Mini Screw		1
	49	SPSK1716M	〃	Reel Disk Bracket Ass'y	4
	50	VKL3438-00A	Reel Disk Bracket Ass'y		1
	51	VKW3002-105	Tension Spring		1
	52	〃 -113	〃		2
	53	〃 -111	〃		2
	54	SPSP2004N	Screw	R/P Head	1
	55	VKR4293-00A	T-up Clutch Ass'y		1
	56	VKR4296-001	F.F Gear		1
	57	VKH3013-016	Flange Collar		1
	58	SSSK1420M	Mini Screw	F.F. Gear	1
	59	VKR4297-00A	FR Cluth Ass'y		1
	60	VKR4300-001	Middle Gear		1
	61	VKR4301-001	Cam Gear		1

Mechanical Component Parts

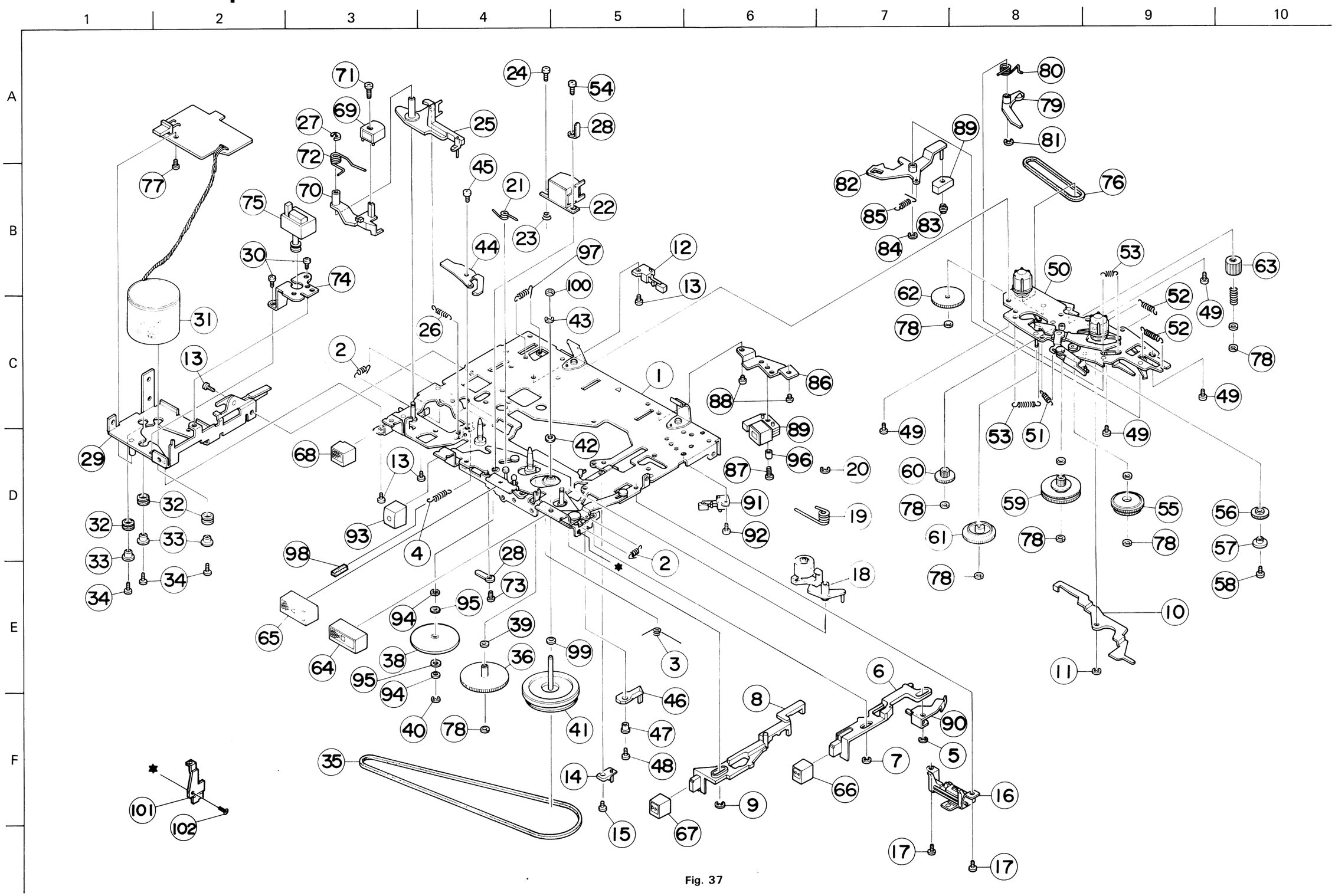


Fig. 37

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	62	VKR4302-001	Rew. Gear (2)		1
	63	VKR4303-001	〃 (1)		1
	64	VXP4242-003	Stop Button		1
	65	VXP4243-003	Play Button		1
	66	VXP4244-003	F.F. Button		1
	67	VXP4245-003	Rew Button		1
	68	VXP4246-003	Eject Button		1
	69	VGH0212-511	Magnet & AC E. Head Ass'y		1
	70	VKS4537-001	E. Head Lever		1
	71	VKZ4017-001	Special Screw	E. Head	1
	72	VKW4378-001	E. Head Lever Spring		1
	73	SPSK1716M	Mini Screw	Wire Clamp	1
	74	VKL5246-001	Counter Bracket		1
	75	VKC5159-001T	Tape Counter		1
	76	VKB3000-054	Belt	Counter	1
	77	SPSK1725M	Mini Screw	Moter P.W. Board	1
	78	VKZ4004-004	Special Washer		4
	79	VKS4479-001	Play Lever		1
	80	VKW4371-001	Play Lever Spring		1
	81	REE1500	E Ring		1
	82	VKS3158-002	Lock Lever		1
	83	VKS4476-003	Spacer		1
	84	REE1500	E Ring		1
	85	VKW3002-109	Tension Spring	Lock Lever	1
	86	VKL5254-001	Solenoid Bracket		1
	87	SSSK2080Z	Mini Screw	DC Solenoid	1
	88	SPSK1720M	〃		2
⚠	89	VGP0703-001	D.C. Solenoid Ass'y		1
	90	VKL5255-001	Switch Lever		1
	91	VSH1122-001	Leaf Switch	M.S Switch	1
	92	SPSK1725M	Mini Screw	Leaf Switch	1
	93	VXP4262-002	Rec. Button		1
	94	Q03093-839	Washer (Subwheel)	Subwheel Ass'y	2
	95	Q03094-155	〃	〃	2
	96	VYH5105-002	Collar	DC Solenoid	1
	97	VKW3002-147	Tension Spring	Rec. Safety	1
	98	VKZ4139-001	Silencer	Rec. Spring	1
	99	Q03093-838	Washer		1
	100	〃 -846	Spacer		1
	101	VYH5259-001	Side Bracket		1
	102	SSSK1720M	Mini Screw		1

Exploded View, Wiring Connection and Parts List for Speakers

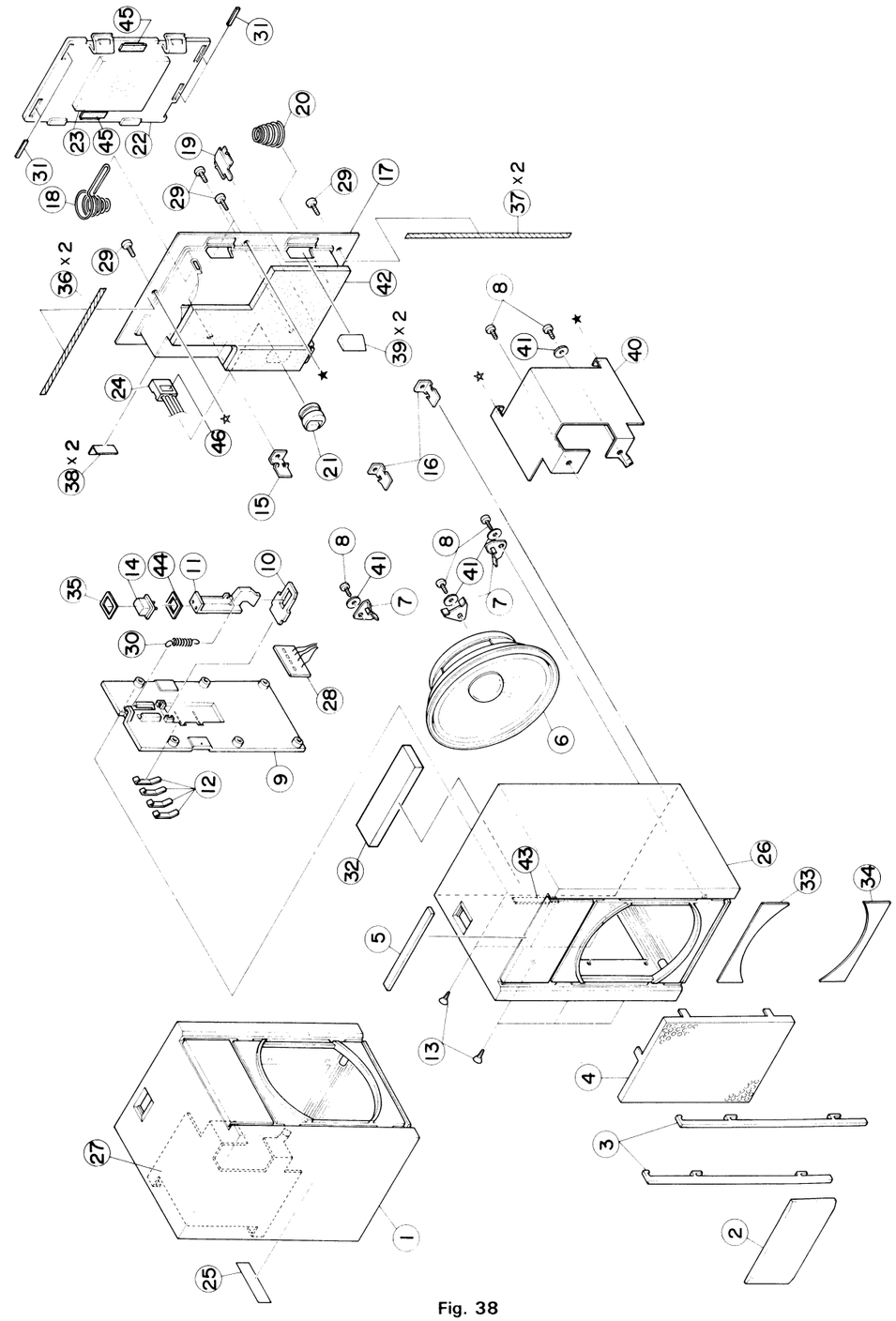


Fig. 38

Replacement of speaker (Refer to the exploded view.)

1. Remove the speaker from the receiver section by pressing the speaker release button. (In this case, remove the batteries from the speaker.)
2. Remove 5 screws (29), then rear cover (17)
3. Unsolder the speaker terminals.
4. Remove speaker stay (32) (secured with adhesive compound).
5. Remove 5 screws (8), then 3 clamps (7) and bracket (40), to take out the speaker.

Speaker System Assembly Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1~5				
	33,34	ZCPCBM100Y-FSL	Front Cover Ass'y	Left side	1
	2~5	ZCPCMB100Y-FSR	Front Cover Ass'y	Right side	1
	26,33,34				
		〃 -FSL	〃	Silver 〃	1
		〃 -FBL	〃	Black 〃	1
		ZCPCBM100Y-FRR	〃	Red Right Side	1
		〃 -FSR	〃	Silver 〃	1
		〃 -FBR	〃	Black 〃	1
	1	VJC1288-007	Front Cover	Left side Silver	1
	〃	〃 -005	〃	〃 Red	1
	〃	〃 -009	〃	Black	1
	2	VJD4703-003	Lens	Silver	1
	〃	〃 -008	〃	Red	1
	〃	〃 -009	〃	Black	1
	3	VJD4704-002	Side Plate		2
	4	VJD4705-002	Punching Panel		1
	5	VJD4709-001	Plate		1
	6	EAS9P106S	Speaker		1
	7	VYH4352-002	Clamp		3
	8	SBSF3010Z	Tap Screw		4
	9	VJD3408-002	Holder	Silver	1
	〃	〃 -001	〃	Red	1
	〃	〃 -001	〃	Black	1
	10	VJD4702-001	Lever		1
	11	VYH5250-001	〃		1
	12	VJD4706-002	Plate		4
	13	SSSF3010N	Tap Screw	Silver	6
	〃	SSSF3010M	〃	Red/Black	6
	14	VXP4326-002	Push Knob	Silver	1
	〃	〃 -001	〃	Red	1
	〃	〃 -001	〃	Black	1
	15	VYH5340-001	Bracket		1
	16	VYH5341-001	〃		2
	17	VJC2116-002	Rear Cover	Silver	1
	〃	〃 -001	〃	Red	1
	〃	〃 -003	〃	Black	1
	18	VYH4668-003	Battery Spring		1
	19	VYH5016-001	Battery Contact		1
	20	VYH4669-001	Battery Spring		1
	21	QHS3876-252	Cord Stopper		1
	22,23,31	PCBM100-BS	Battery Cover Ass'y	Silver	1
		〃 -R	〃	Red	1
		〃 -B	〃	Black	1
	22	VJC3035-002	Battery Cover	Silver	1
	〃	〃 -001	〃	Red	1
	〃	〃 -003	〃	Black	1
	23	VYSH106-037	Spacer		1
	24	VMC0016-001	Connector Ass'y		1
	25	VYNA420-002	Name Plate		1
	26	VJC1288-008	Front Cover	Right Side Silver	1
	〃	〃 -006	〃	〃 Red	1
	〃	〃 -010	〃	〃 Black	1
	27	VYH3246-001	Bracket	Left Side	1
	28	—	Hook up P.W. Board		1
	29	SDSP3004R	Screw		5
	30	VKW3002-125	Spring		1
	31	VYSR101-004	Spacer		4
	33	VJD4737-001	Plate		1
	34	VJD4737-002	〃		1
	35	VYTA483-001	Spacer		1
	38	VYSH103-036	〃		2
	39	VYTS419-001	〃		2
	40	VYH3246-002	Bracket	Right side	1
	41	Q03091-109	Washer		4
	44	VYTA484-001	Spacer		1
	45	VYSA1R6-034	〃		2
	46	VYH5392-002	Sheet		1

Wiring Connection

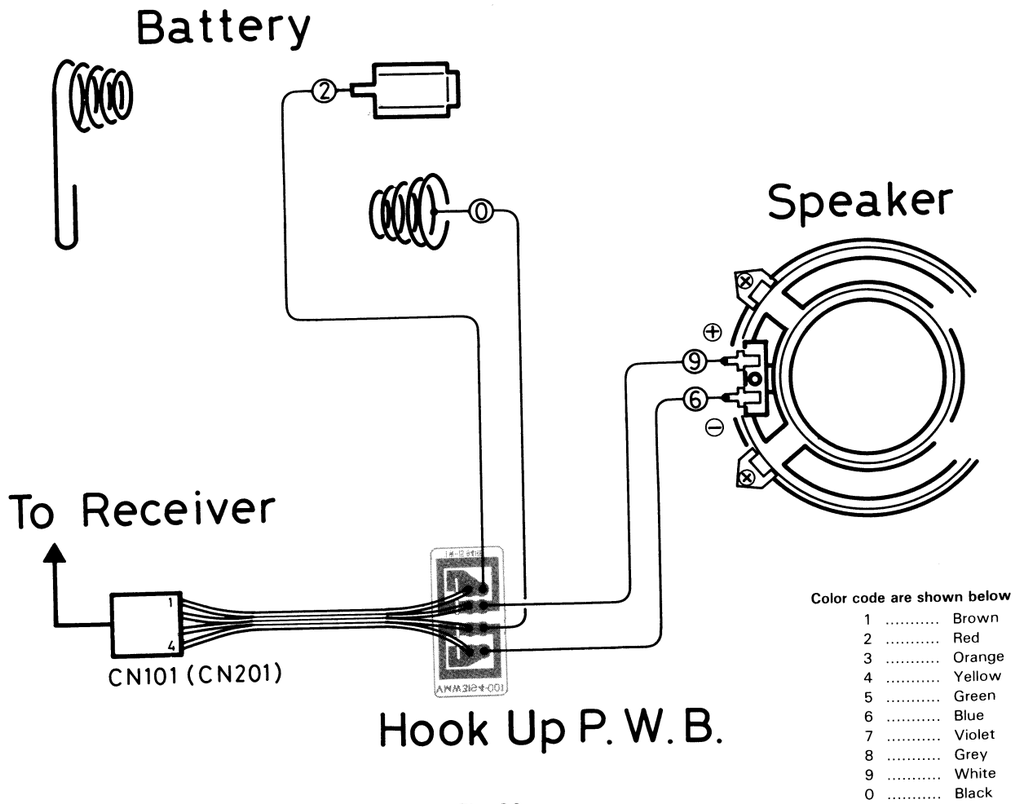


Fig. 39

Replacement of Main Parts List
Receiver Section

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks
	<Trans. Coil>			
	L1	VQF1B12-001	RF Coil	FM
	L2,3	VQB010B-301	Bar Ant Ass'y	LW, MW
	L4	VQR7002-302	RF Coil	SW2
	L5	VQF1B10-001	OSC Coil	FM
	L6	VQM7T19-301	〃	MW
	L7	VQS7U01-301	〃	SW1
	L8	VQR7002-302	〃	SW2
	L9	VQC1304-002	Coil	
	L10	VQP0012-8R2	Inductor	
	L11	VQC1304-001	Coil	
	T1,T2	VQT7F12-104M	IFT	
	T3,CF1	VQT7A21-102	〃	
	T4	VQT7A11-203	〃	
	T301	VTP09Z2-12D	Power Trans	
	CF2,3	V03059-013	C. Filter	
	B.P.F	VBP3M4B-001	B.P. Filter	
	L.P.F	VQZ1B12-001	L.P. Filter	
	<IC>			
	IC1	AN7222N	IC	
	IC2	AN7410N	〃	
	IC301	M5218L	〃	
	IC302	LA2001	〃	
	IC303	TA7232P	〃	
	<Transistor>			
	Q1,3	2SA1177(E)	Transistor	
	Q2	2SC535(B)	〃	
	Q4,6	2SC2063(N)	〃	
	Q5	2SC923(U)	〃	
	Q7	2SK104(H)	F.E. Transistor	
	Q8	2SK246(GR)	〃	
	Q101,201,303 304	2SC2785(E,F)	Transistor	
	Q302	2SD468(C)	〃	
	Q306	2SD1266(P,Q)	〃	
	<Diode>			
	D1	1S553T	Var. Capacitor	
	D2,3,4,7,310 311	MA165	Si. Diode	
	D5	LN210RP	LED	TU.
	D6	〃	〃	ST
⚠	D301,303,305 306,307,308 309	11E1	Si. Diode	
⚠	D302	LN210RP	LED	PO
⚠	D304	HZ6A2	Zener Diode	
	<Volume>			
	VR301	QVZ5017-003	V. Resistor	Volume 20 kΩ(A)
	VR302	QVZ5203-003	〃	BASS 50 kΩ(D)
	VR303	〃 -004	〃	TREBLE 50 kΩ(A)
	<Switch Jack Socket>			
	S1~5	QST3521-V01	Push Switch	
	S301-1~2	QST3101-V03	〃	AUX
	S303	QST2101-V04	〃	
	S305-1~4	QST3101-V04	〃	Function
	S306-1~2	QST3101-V03	〃	MS
⚠	S305	QSS2325-104	Slide Switch	PC-M100L
		〃 -104BS	〃	PC-M100LB
	J101	VMC0002-002	Jack	
	J201	〃 -001	〃	
	J302,S302	QMS3507-001	〃	Head Ph.
	J303	QMA1221-004	〃	EXT. DC
⚠	J304,S304	QMC026-002U	AC Socket Ass'y	PC-M100L
		〃 -002UBS	〃	PC-M100LB

⚠	Ref. No.	Parts No.	Parts Name	Remarks
	<Knob>			
	59	VXP4325-001	Push Knob	
	60	VXS4105-001	Slide Knob	
	61	VXS4106-001	〃	
	<Other Parts>			
	VC1-1,2	QAP1224-521V	V. Capacitor	
	VC2-1,2			
	TC1,4,5,8			
	TC2,3,6,7	QAT3001-053	T. Capacitor	
	VC3	QAT5001-003	M.V. Capacitor	
	VR1	QVZ3512-103	V. Resistor	
⚠	R113,213,327	QRH141J-4R7	Fusible Resistor	
⚠		QMF51C2-2R0	Fuse	PC-M100L
		〃 -2R0BS	〃	PC-M100LB
	CN101,201	VMC0015-004	Connector	
	CN301	QMV5005-007	〃	
	CN302	〃 -003	〃	
	<Receiver>			
	1~7	ZCPCMR100Y-FR	Front Cabinet Ass'y	
		VJC1286-005	Front Cabinet	
	79	VJC1287-003	Rear Cabinet	

Deck Section

⚠	Ref. No.	Parts No.	Parts Name	Remarks
	<Trans. Coil>			
	L501,601	VQZ0021-001	Trap. Coil	
	L502,602	VQP0013-152	Inductor	
	L503,603	VQP0009-103	〃	
	L701	VGC0013-001	OSC Coil	
	<IC>			
	IC701	TK10562	IC	
	IC702	NE600D (B1)	〃	
	IC703	TA7688F	〃	
	<Transistor>			
	Q502~508 602~608 703~707,710	2SC601 (Q,R)	Transistor	
	Q509,609,708 711~713	2SD1048X	〃	
	Q701,702	2SB709 (Q,R)	〃	
	Q709	2SB970 (Q,R)	〃	
	<Diode>			
	D501,601,502 602,701~708	MA152K	Si. Diode	
	D709	10E1	Si. Diode	
	<Volume>			
	VR501,601	QVZ1001-002	V. Resistor	Volume 10 kΩ (B)
	VR502,602	QVZ3515-022	〃	P.B. Level 200 Ω (B)
	VR503,603	〃 -014	〃	Rec. Level 10 kΩ (B)
	VR504,604	〃 -024	〃	Baias 50 kΩ (B)
	<Switch Jack Socket>			
	S701	QSS6201-211	Slide Switch	REC/PB
	S702	QSS2201-025	〃	METAL/NORM
	S703	QSS1201-024	〃	PAUSE
	S704	〃 -024	〃	NY System
	S705	QSS2301-402	〃	Beat Cut
	J701	QMS3506-001	Mic Jack	
	J702	VMJ4013-001	H.P. Jack	

⚠	Ref. No.	Parts No.	Parts Name	Remarks
	<Other Parts>			
	13~14	ZCPCMD100Y-CS	Cassette Lid Ass'y	
	18	WM-063X	E.C. MIC	
	25	VXL4170-001	VR Knob	
	38	VJC4014-001	Battery Cover	PC-M100L
	〃	〃 -002	〃	PC-M100LB
	43	VXS4080-001	Knob	
	44	VXS4108-001	〃	
	<Cassette Mechanism Parts>			
	12	VSH1203-003	Leaf Switch	
	18	VKP4124-00A	Pinch Roller Arm Ass'y	
	22	VGH0421-017	R/P Head Ass'y	
⚠	31	XDE-5A3RE	Motor	
	35	VKB3000-055	Belt	
	41	VKF3121-00F	Flywheel Capstan Ass'y	
	50	VKL3438-00A	Reel Disk Bracket Ass'y	
	64	VXP4242-002	Stop Button	
	65	VXP4243-003	Play Button	
	66	VXP4244-002	F.F. Button	
	67	VXP4245-002	Rew. Button	
	68	VXP4246-002	Eject Button	
	69	VGH0212-511	Magnet & AC, E. Head Ass'y	
	75	VKC5159-001T	Tape Counter	
	76	VKB3000-050	Belt	for Counter
⚠	89	VGP0703-001	D.C. Solenoid Ass'y	
	91	VSH1122-001	Leaf Switch	
	93	VXP4262-002	Rec. Button	

Speaker Section

⚠	Ref. No.	Parts No.	Parts Name	Remarks
	1~5,33,34	ZCPCBM100Y-FSL	Front Cover Ass'y	Left side
	6	EAS9P106S	Speaker	
	24	VMC0016-001	Connector Ass'y	
	2~5,26,33,34	ZCPCBM100Y-FSR	Front Cover Ass'y	Right side

Accessories

Parts No.	Parts Name	Remarks	Q'ty
QMP3950-183	Power Cord	PC-M100L	1
QMP9017-009BS	〃	PC-M100LB	1
VJB2008-00A	Carring Case Ass'y		1
VNM0913-301	Instruction Book		1
VNF0912-001	Feature Sticker		1
VJH4055-00B	Handle Ass'y	PC-M100L/LB SLV	1
〃 -00A	〃	PC-M100L RED	1
〃 -00C	〃	〃 BLK	1
BT20060	Guarantee Certificate	PC-M100LB	1
BT20066	〃	〃	1
QZL1002-003	Warring Label	〃	1
31455-18	Mark	〃	1
VYH5392-00C	Protector Ass'y		1
〃 -00D	〃		1

Packing

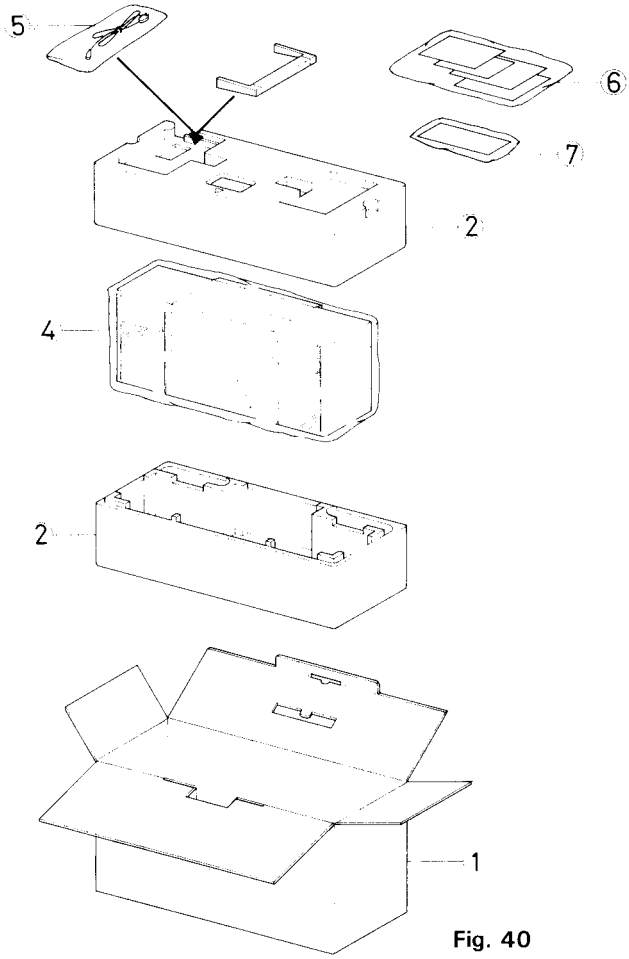


Fig. 40

Positions of controls and switch knobs at remarked packing renewed

Band	: FM
Mode	: STEREO
Function	: Radio /Tape
Music scan	: OFF
Power	: OFF
Tuning	: Aprox 600 kHz
Slide knobes	: Center
Tape counter	: 000
Volume (Deck section)	: Center
Pause	: OFF
Tape select	: Aprox Normal
Beat cut	: 1
ANRS/DOLBY B	: OFF

Packing Parts List

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPD5088-J09	Carton	PC-M100L SLV	1
	〃	〃 -J19	〃	〃 RED,BLK	1
	〃	〃 -J11	〃	PC-M100LB	1
	2	VPH1281-001	Lower Cushion		1
	3	VPH1280-001	Upper Cushion		1
	4	VPE3002-003	Poly Bag	for Unit	1
	5	AP4056A-36	〃	for Power Cord	1
	6	VPE3004-007	〃	for Instruction Set	1
		VPE3004-001	〃	PC-M100LB	1
	9	VJH4055-00B	Handle Ass'y	PC-M100L,LB SLV	1
		〃 -00A	〃	PC-M100L RED	1
		〃 -00C	〃	〃 BLK	1

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